

Fig. 1

414712

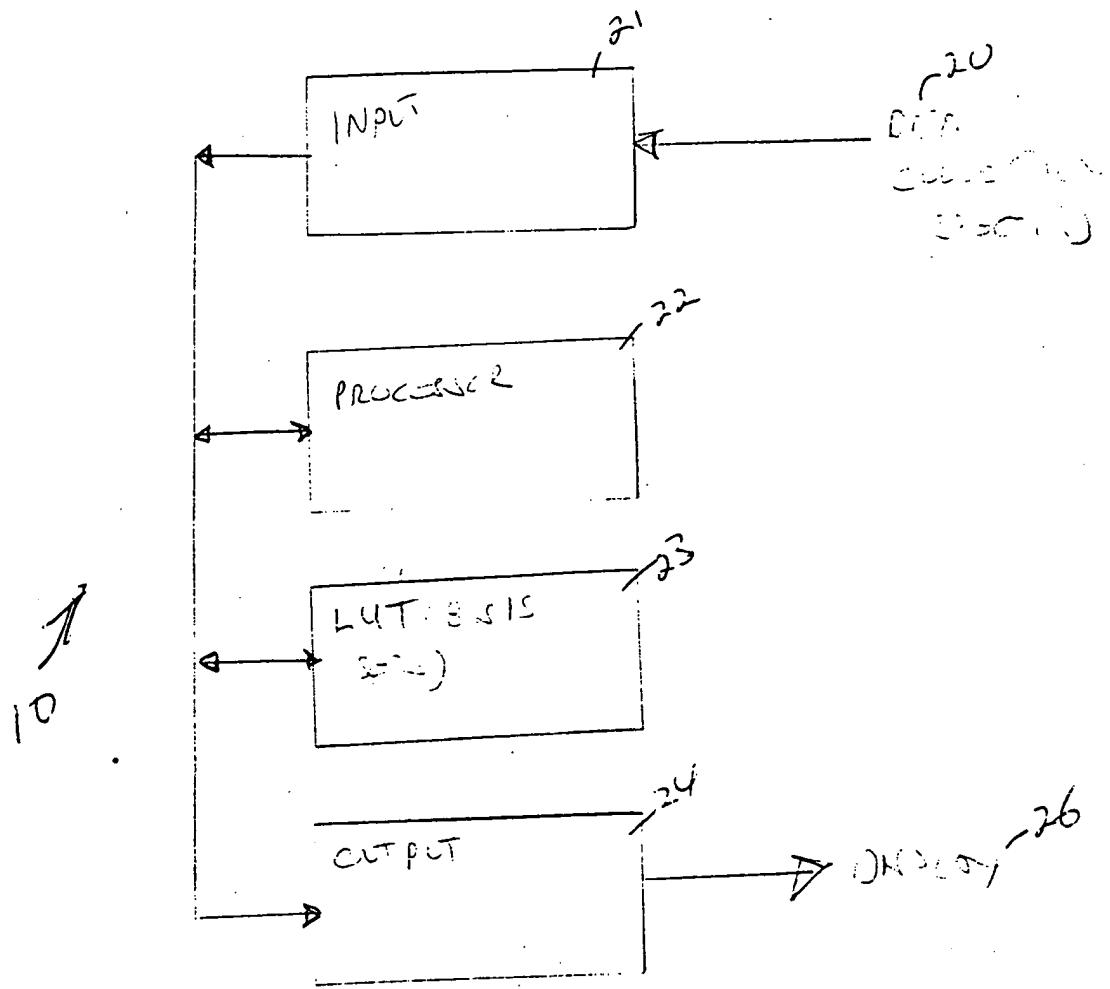


Fig. 2

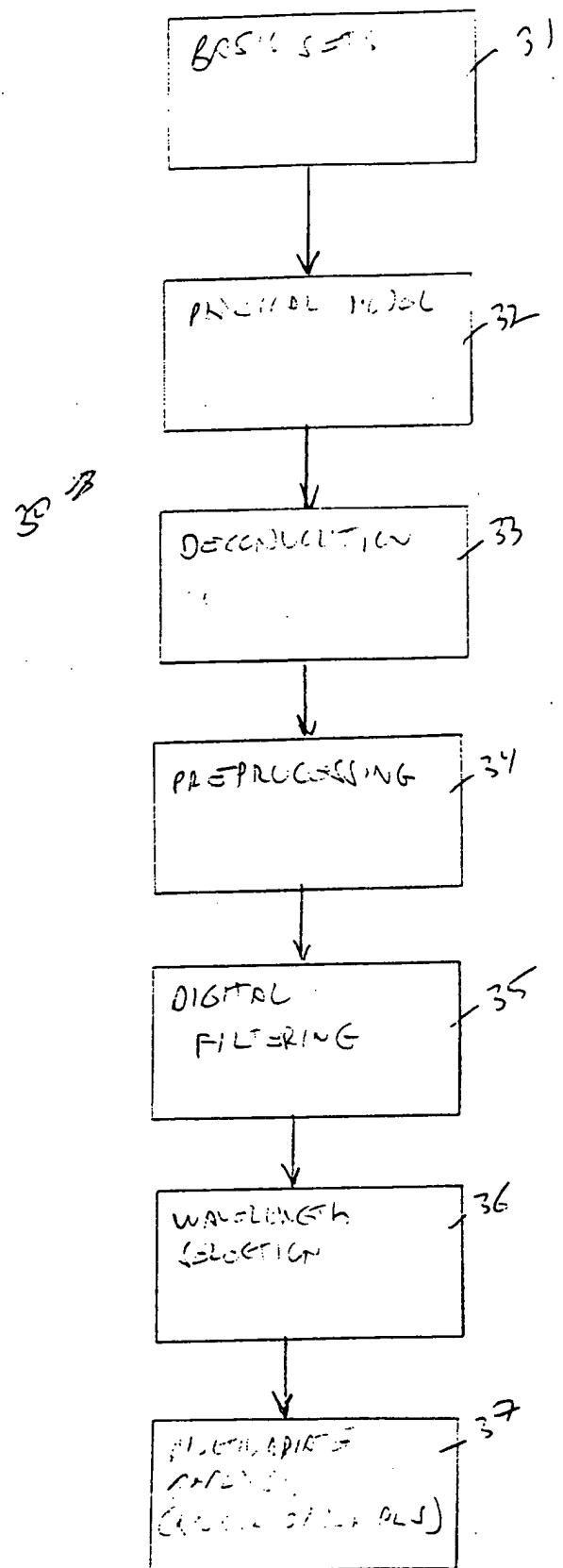


Fig. 3

Water Absorbance
($b=1$ mm)

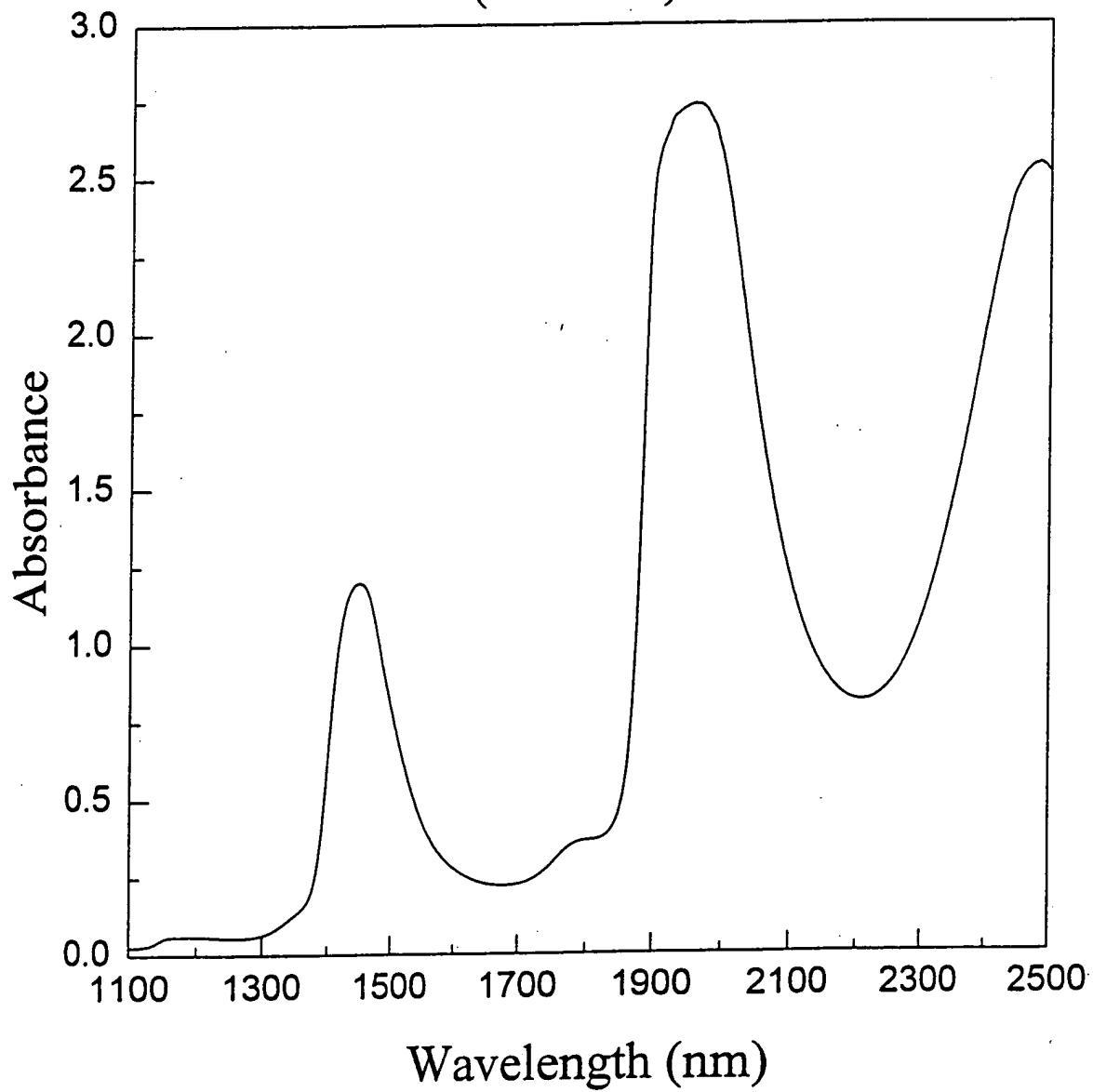


FIG. 4

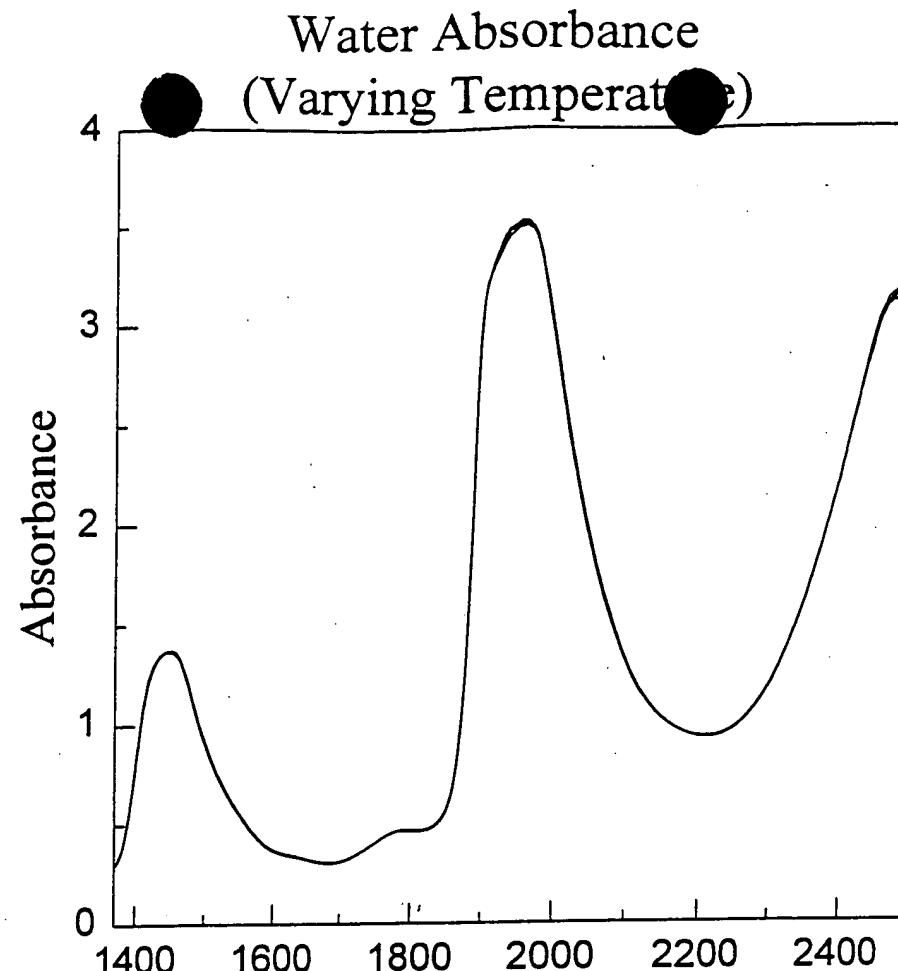


Fig. 5a

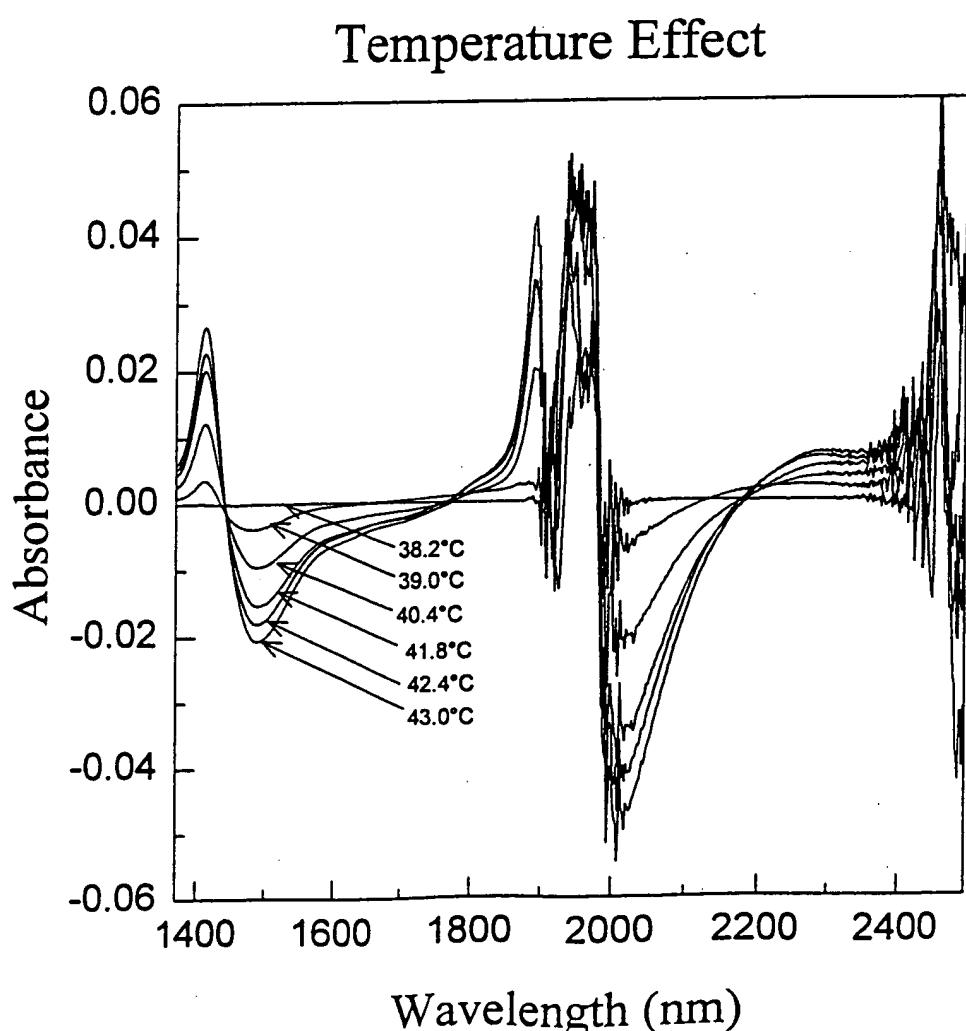


Fig. 5b

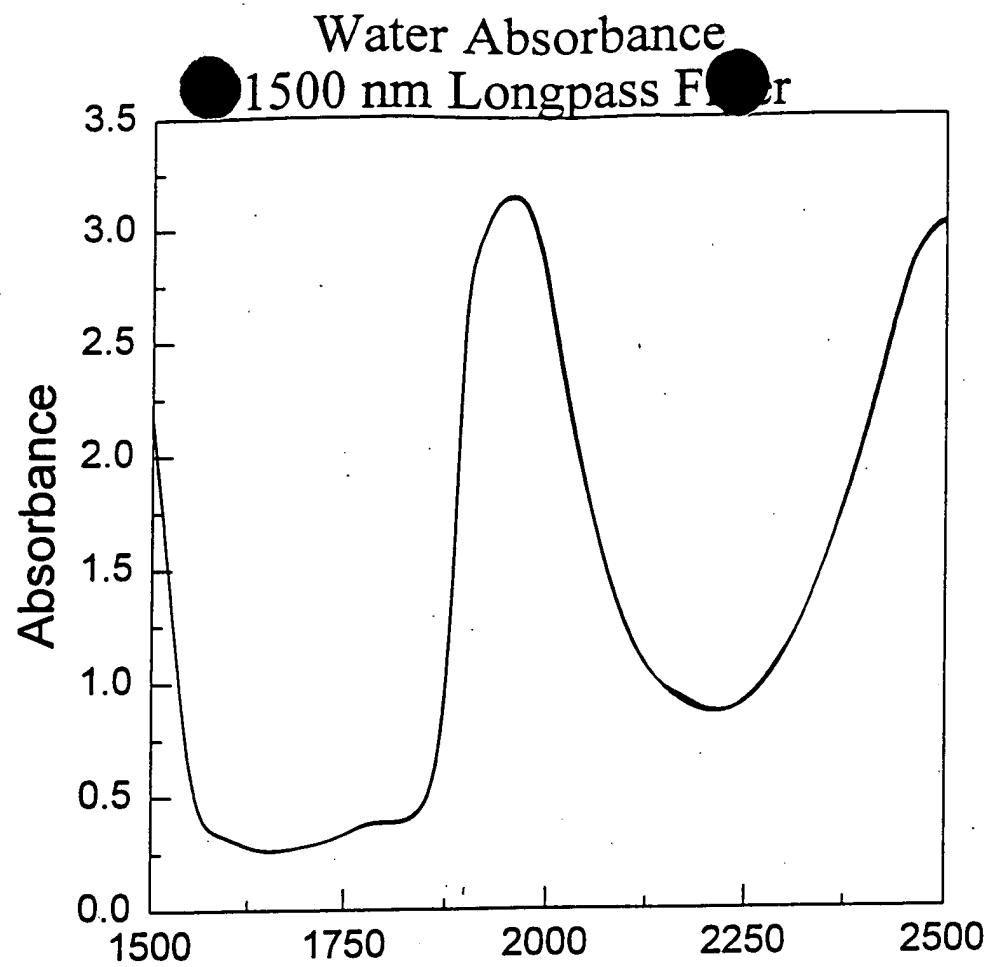


Fig. 6a

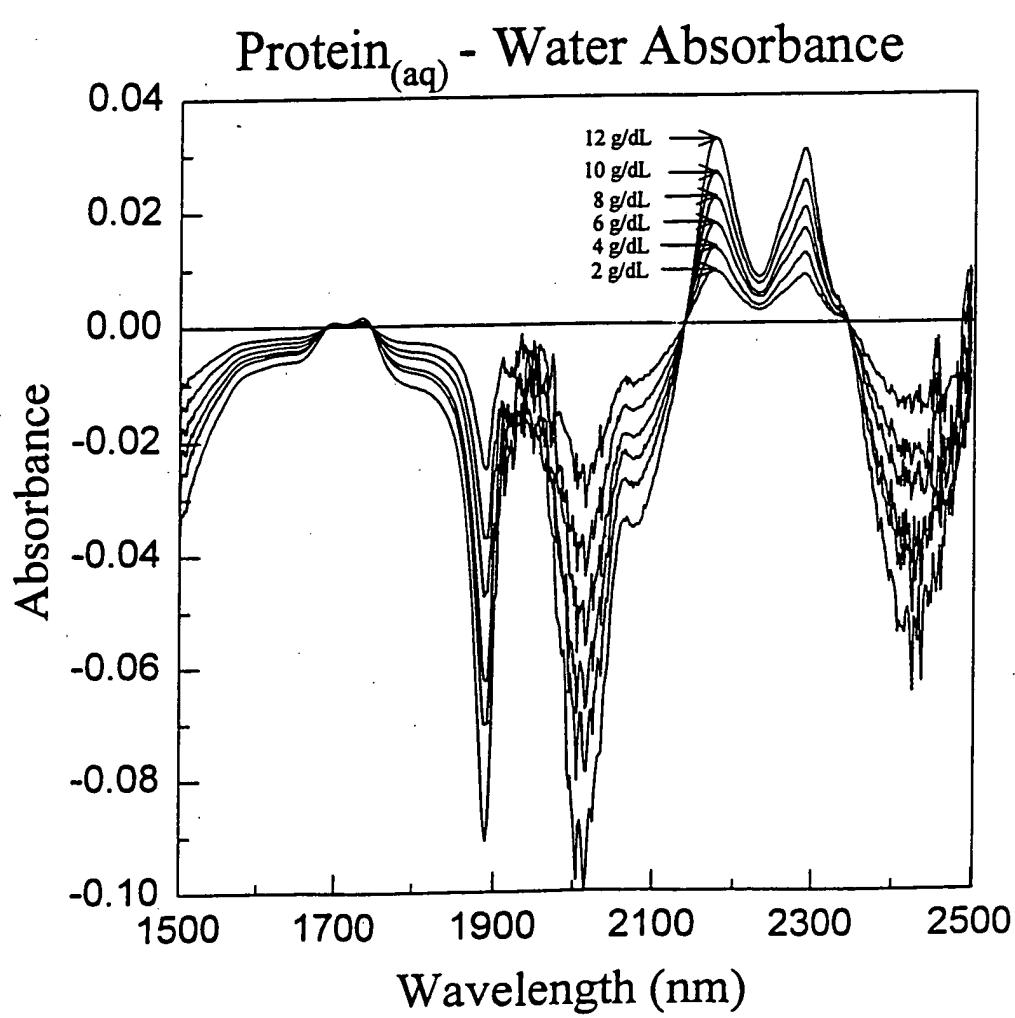


Fig. 6b

Albumin(aq) - Buffer(pathlength corrected)

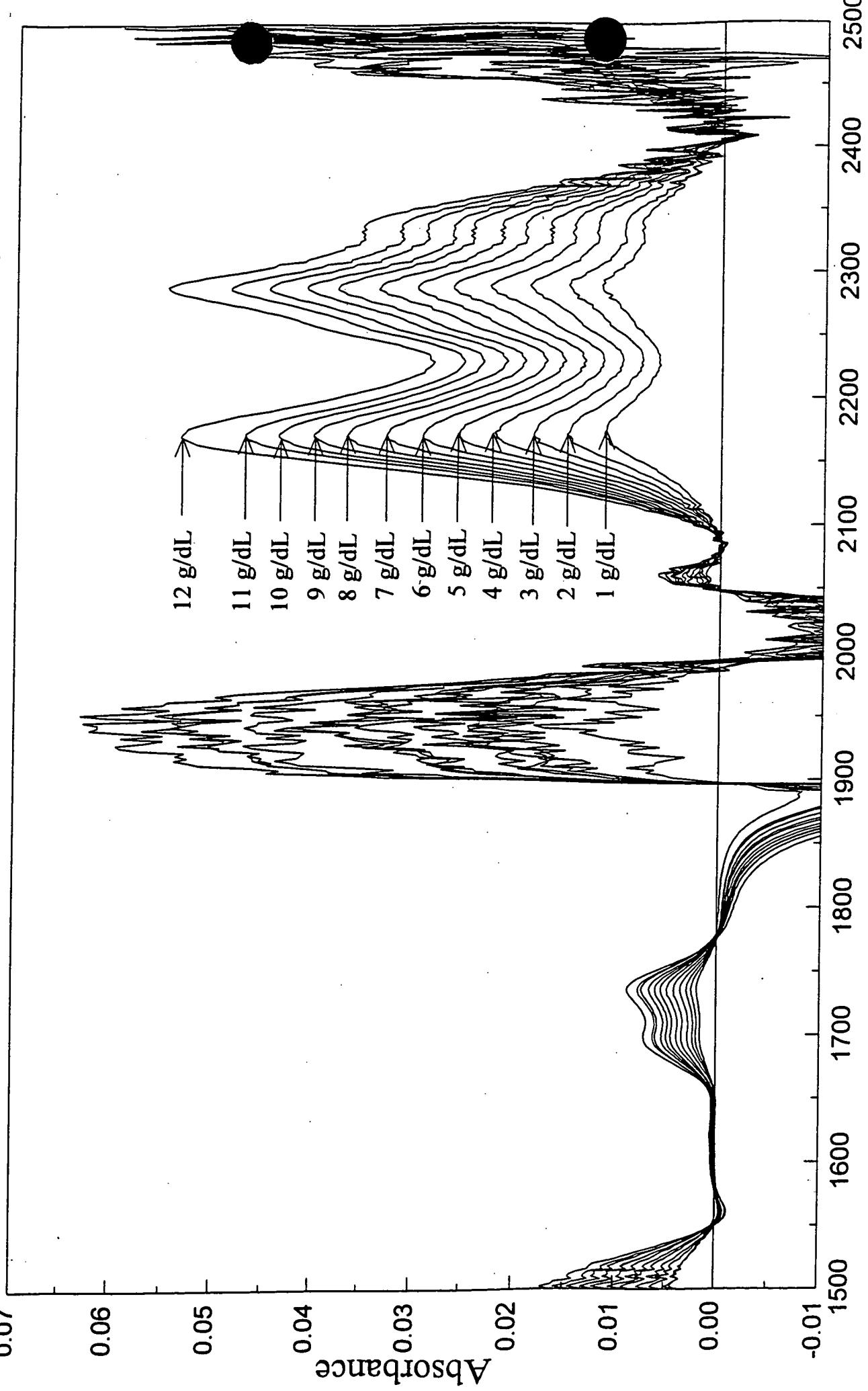


FIG 7
Wavelength (nm)

Globulin_(aq) - Buffer

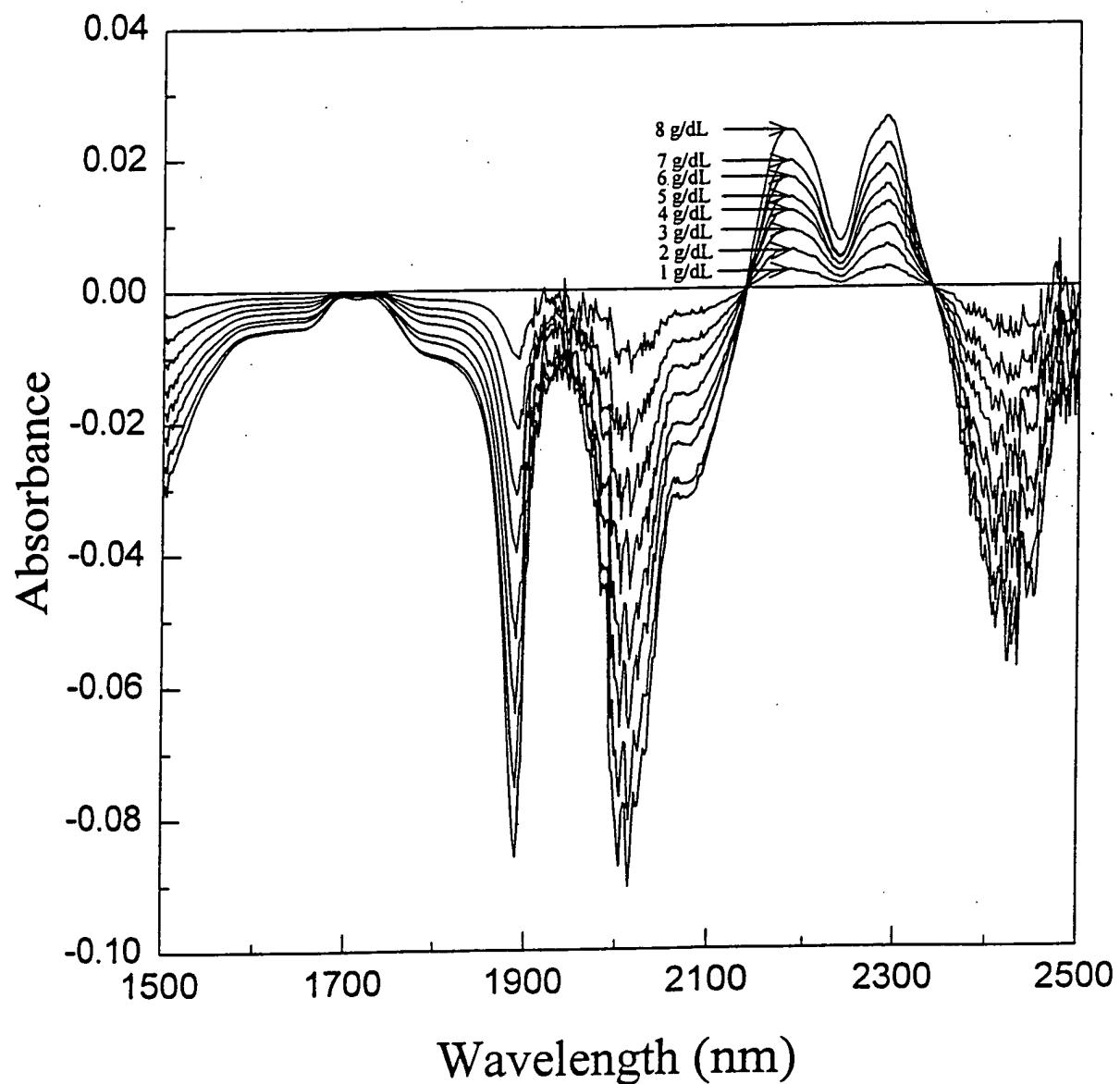
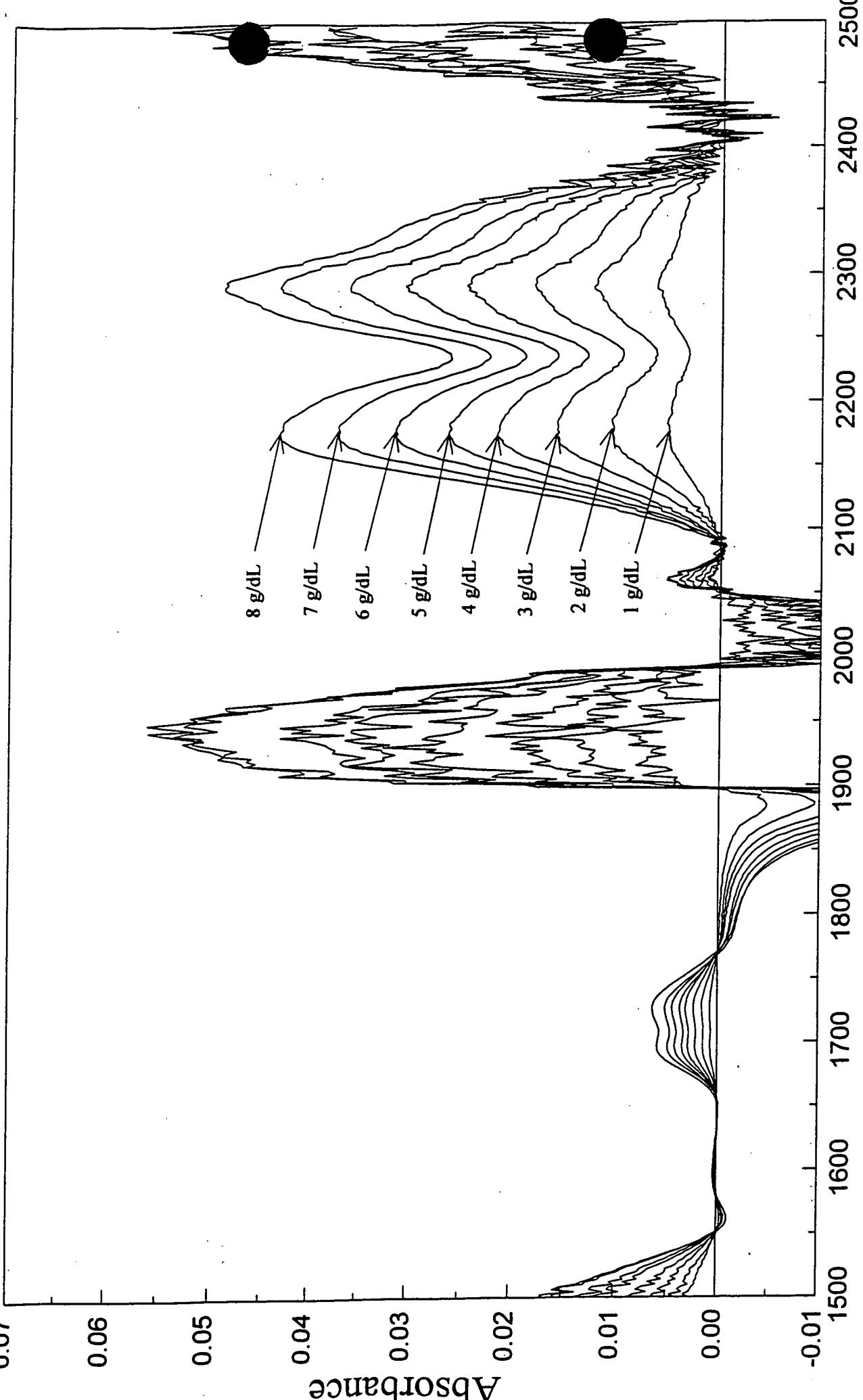


FIG. 8

Globulin_(aq) - Buffer(pathlength corrected)



Wavelength (nm)

FIG 9

Pathlength Corrections Required
(Albumin, Globulin, & Triacetin)

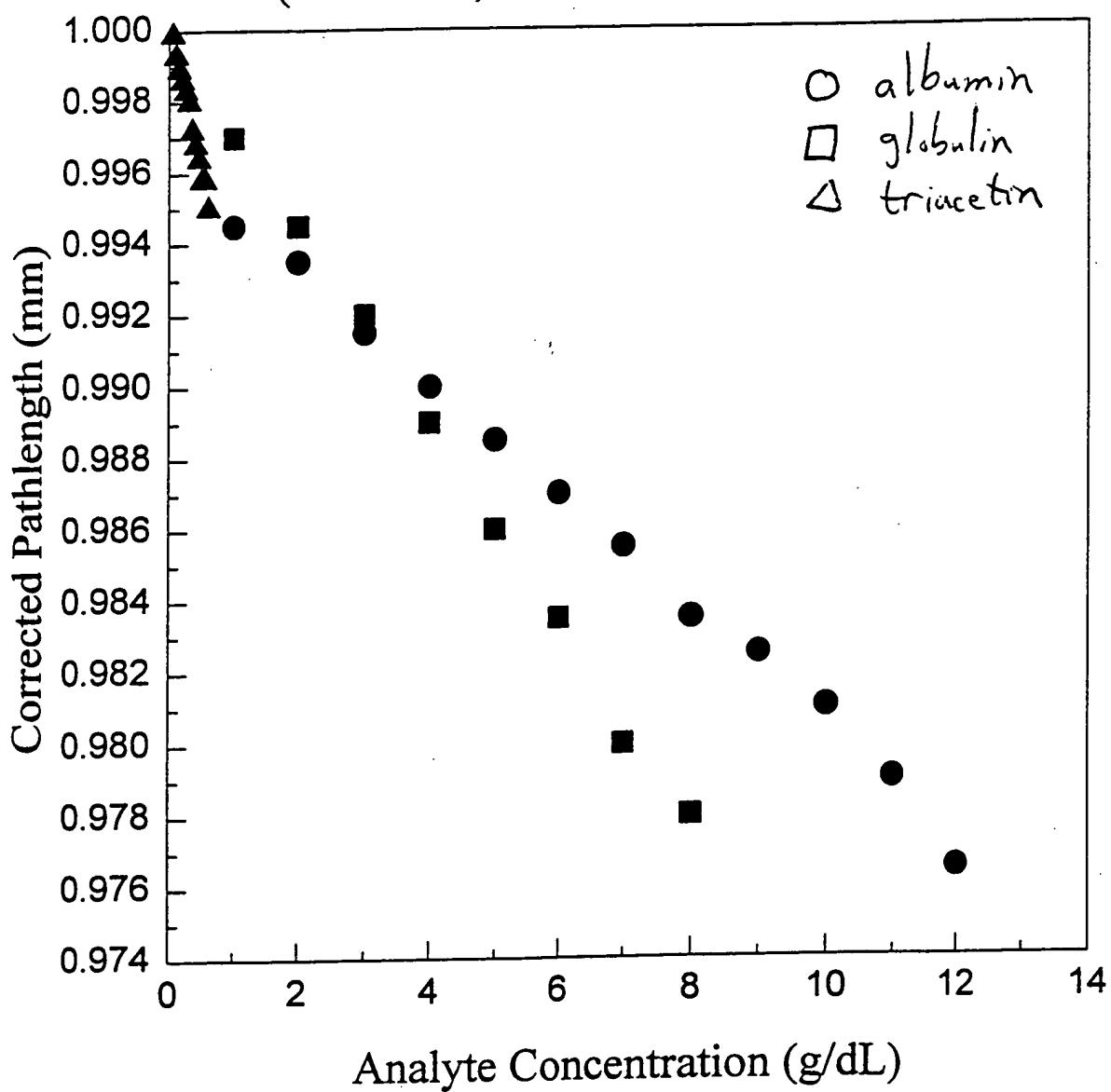


FIG. 10

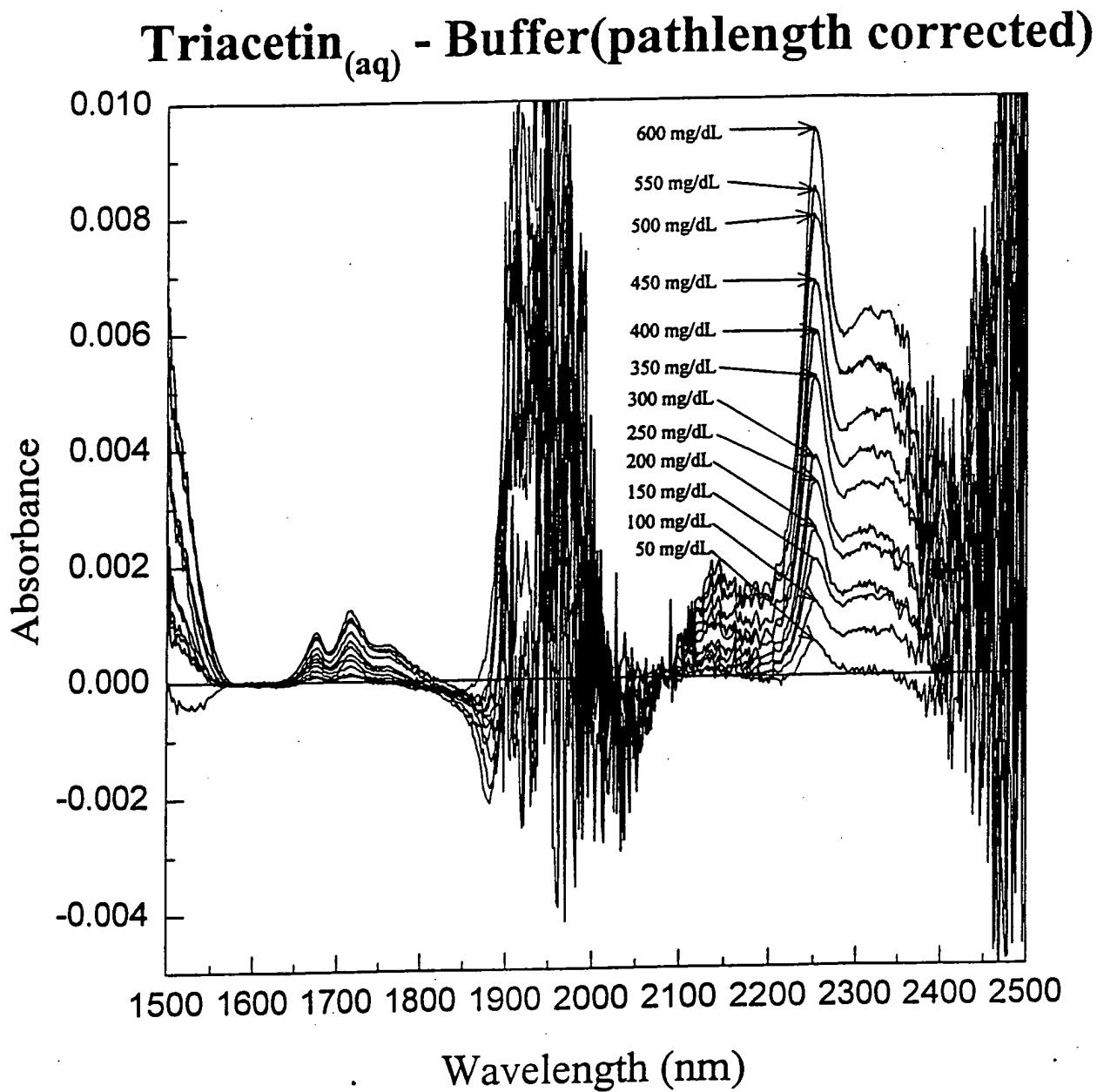


FIG. 11

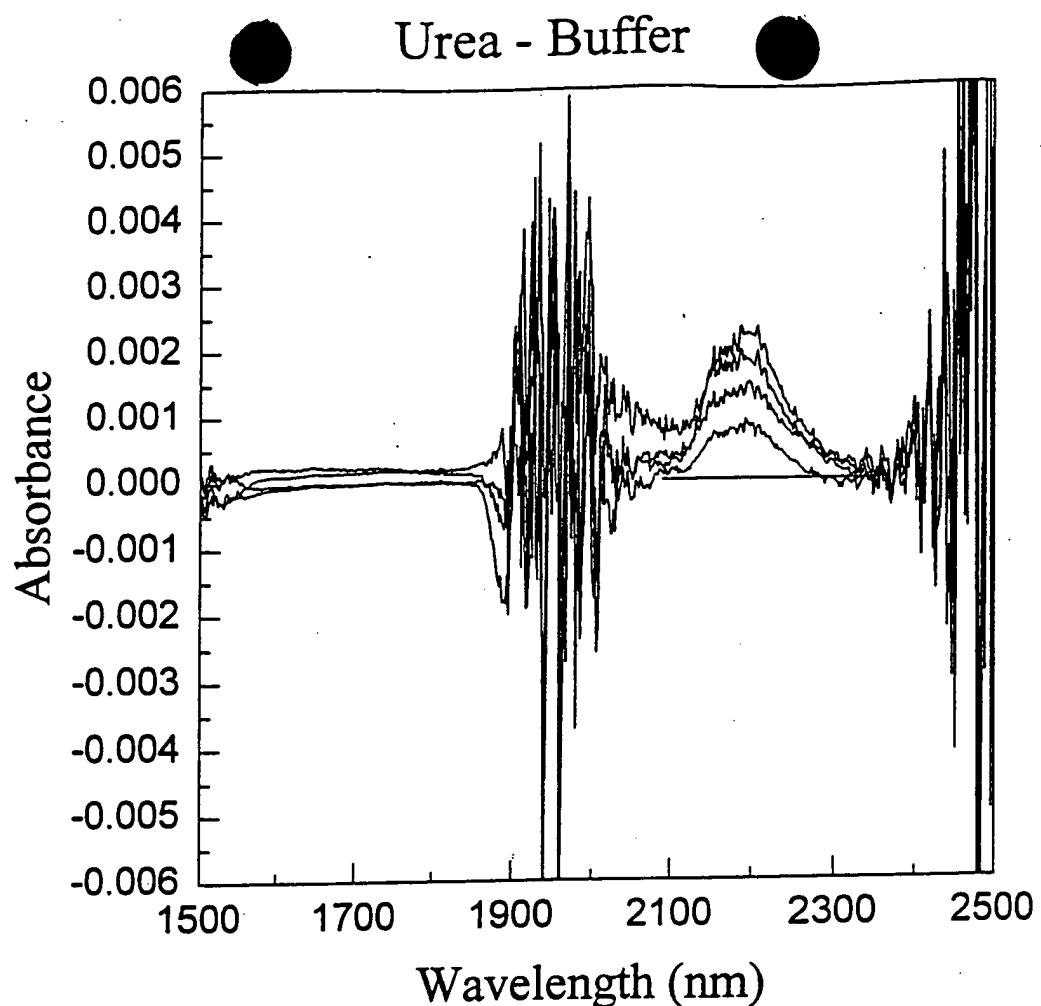


Fig 12a

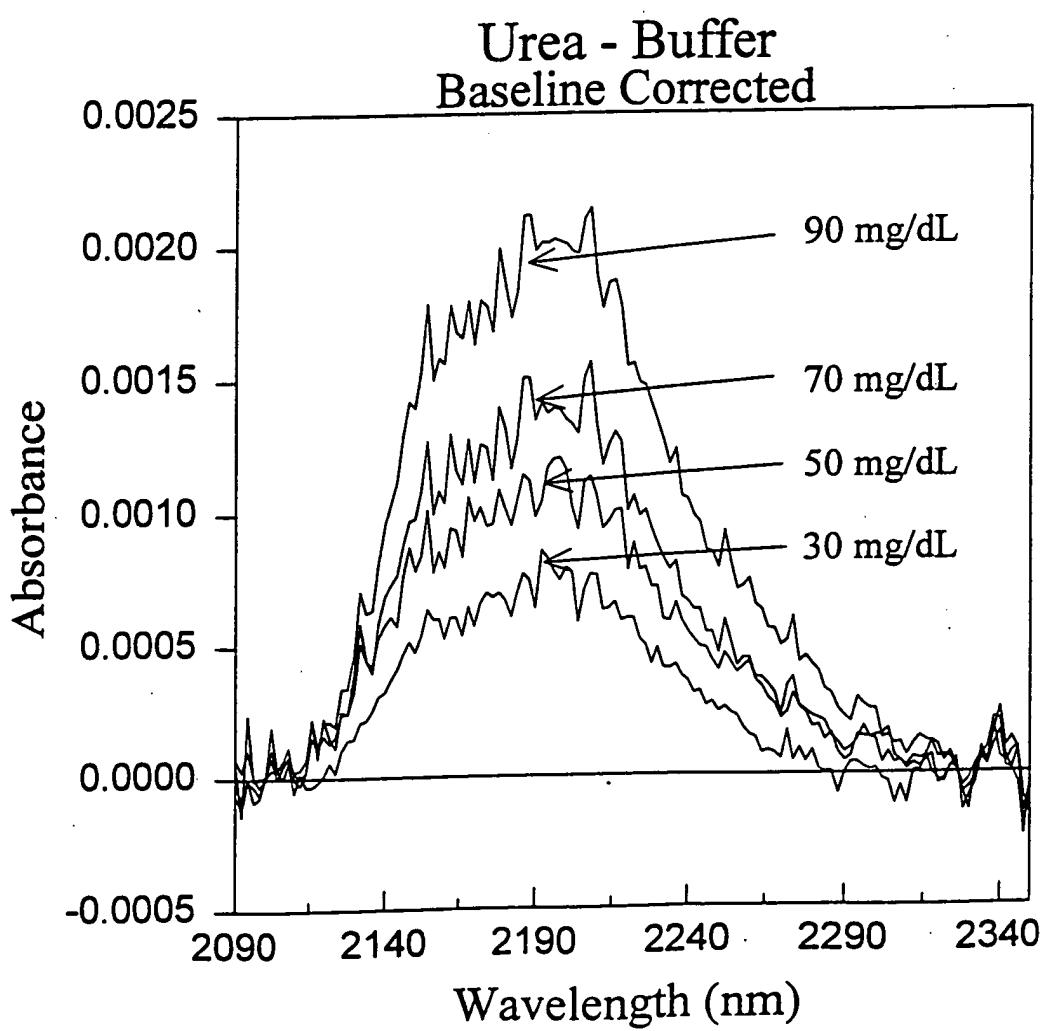
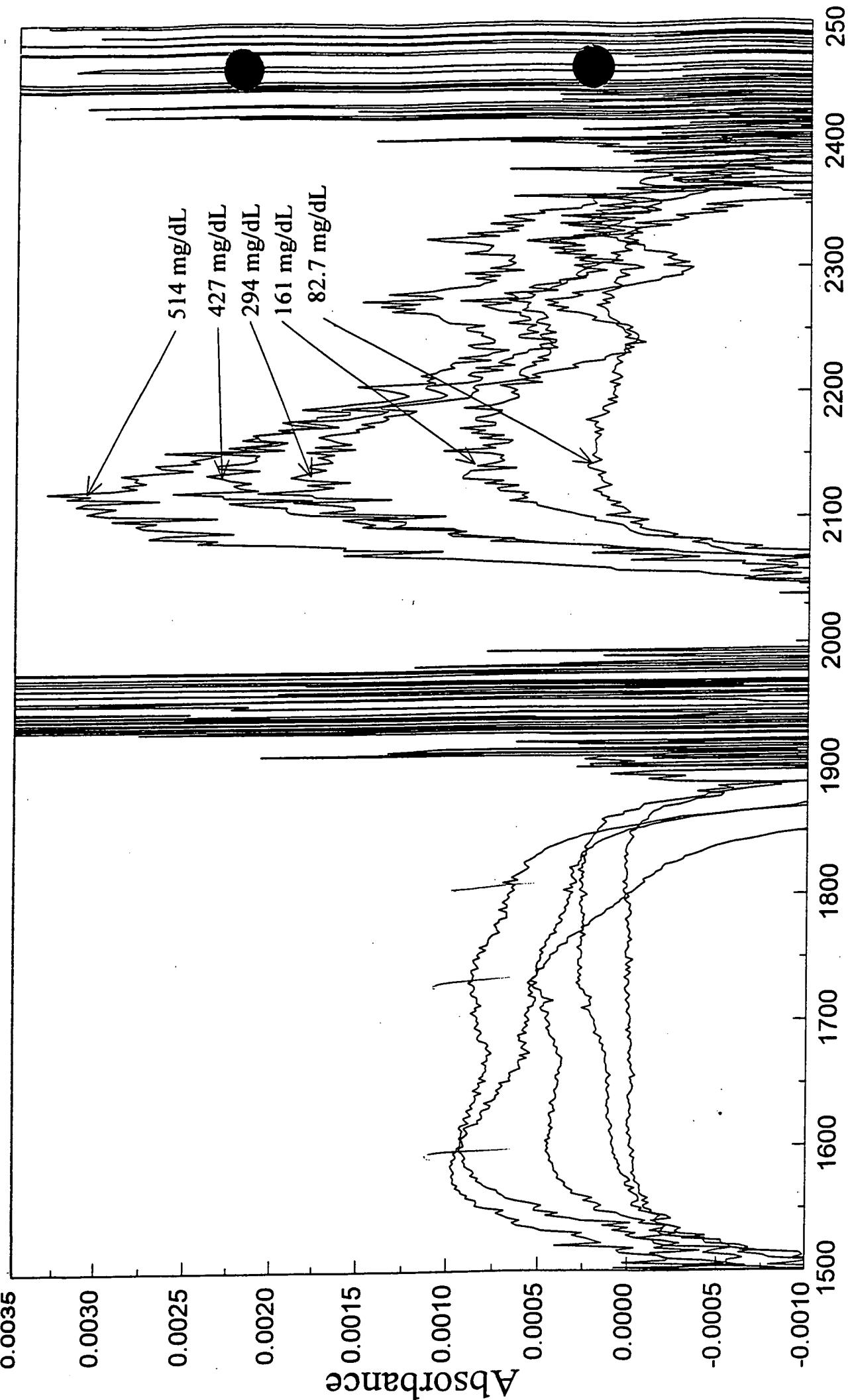


Fig 12b

Glucose - Buffer



Wavelength (nm)

FIG. 13

Solid Samples

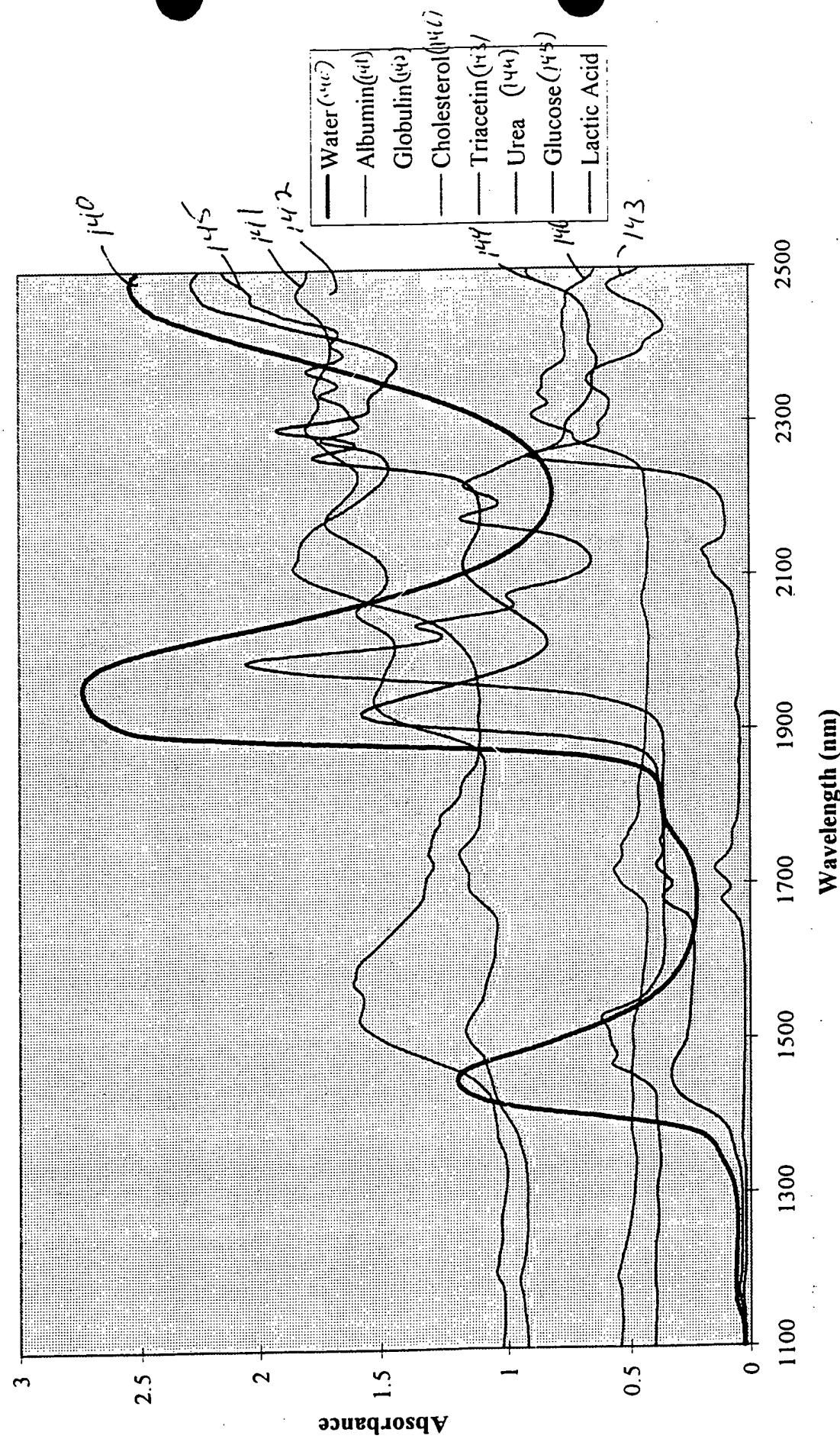


FIG. 14

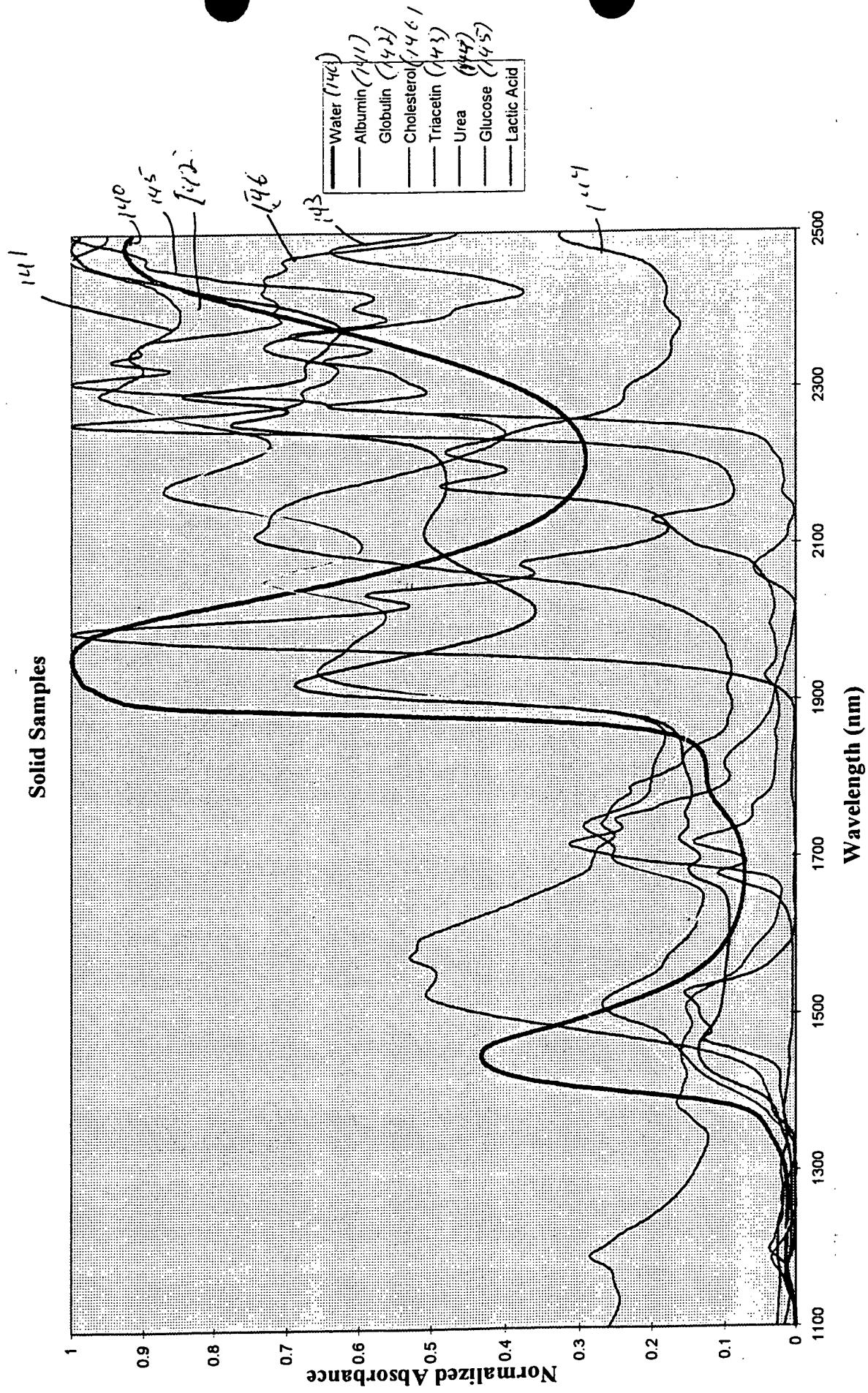


FIG. 15.

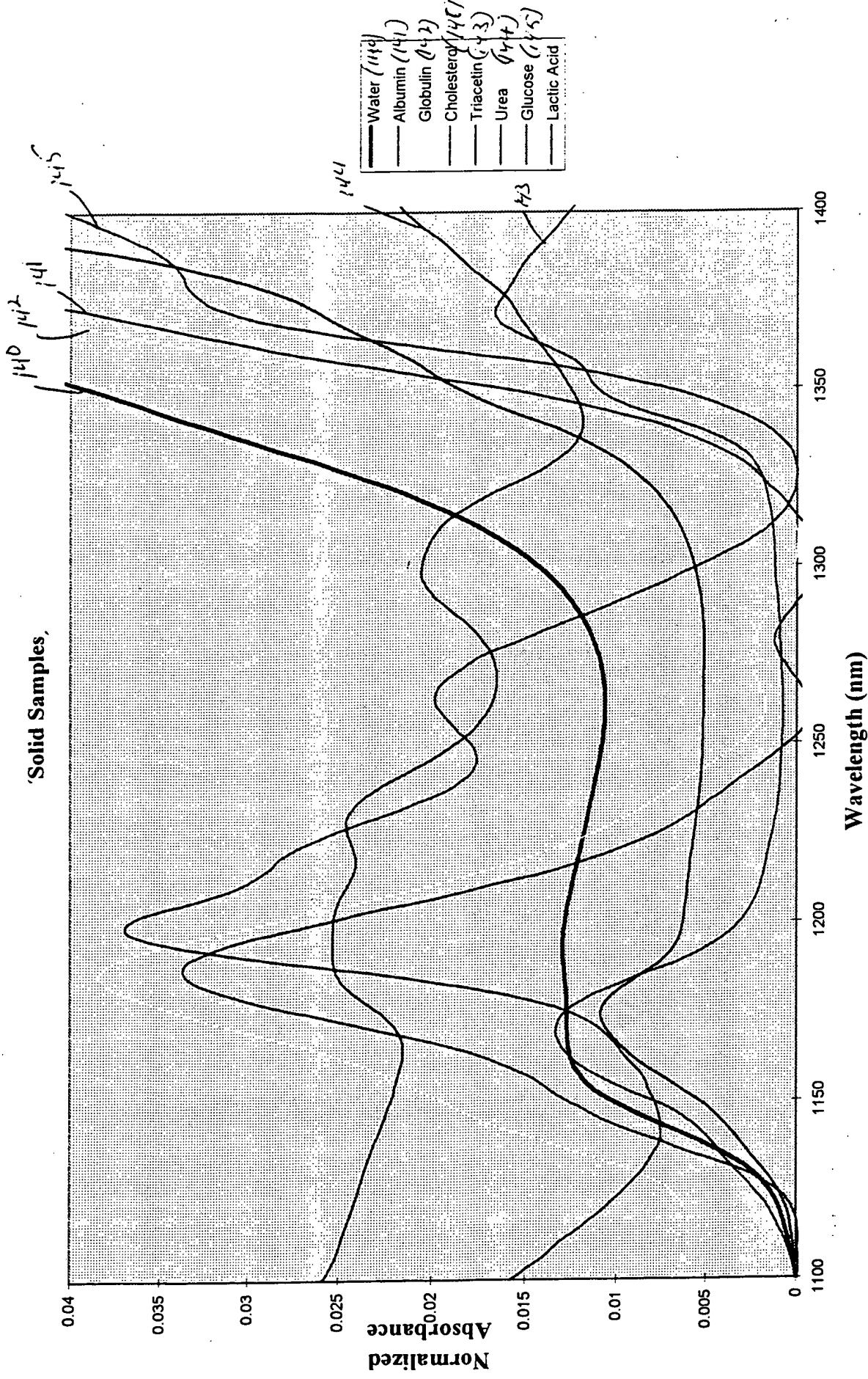


FIG. 16

Glucose_(aq)

Range 1: (2078 to 2243 nm); Resolution = 2 nm

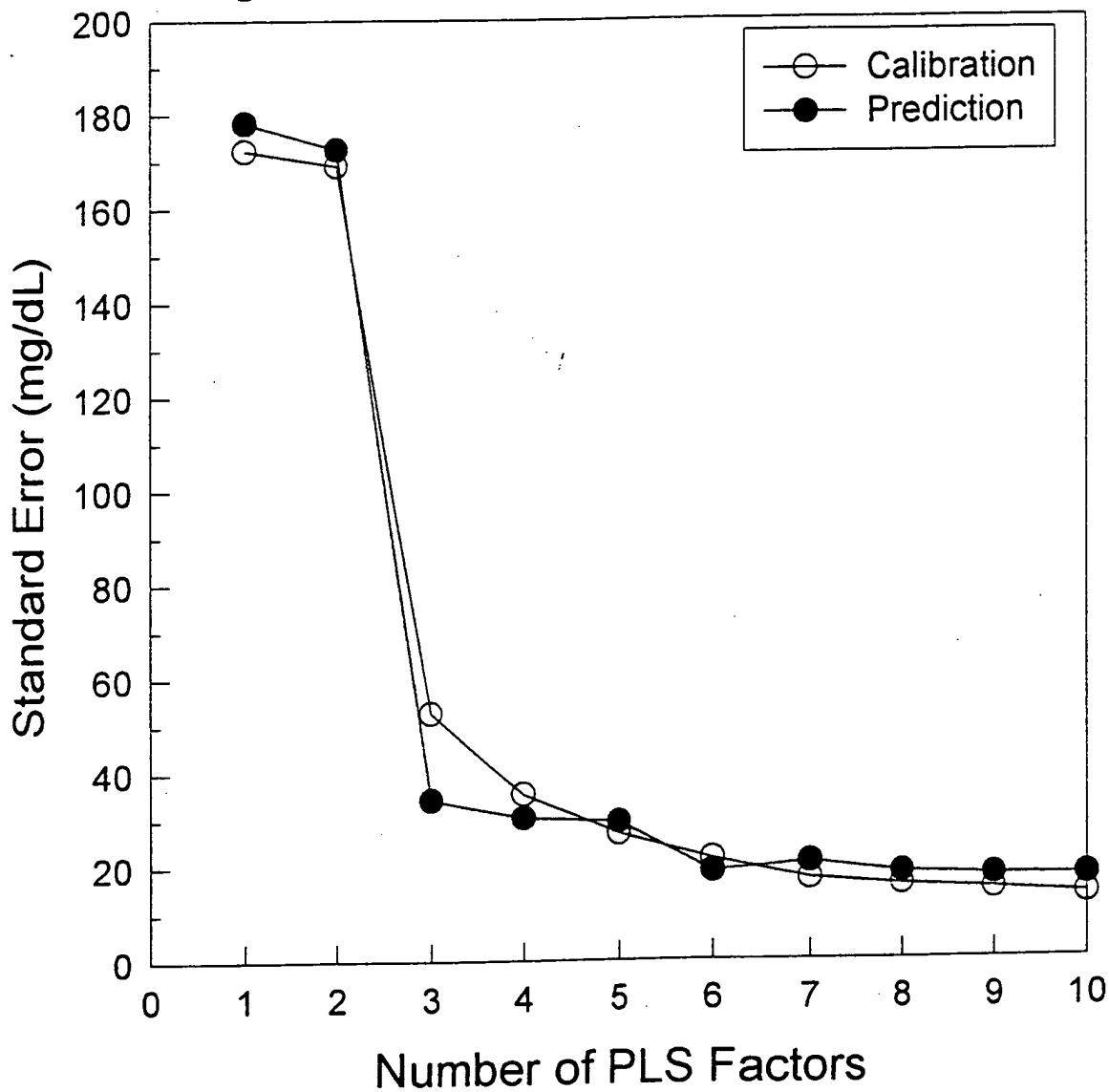


FIG. 17

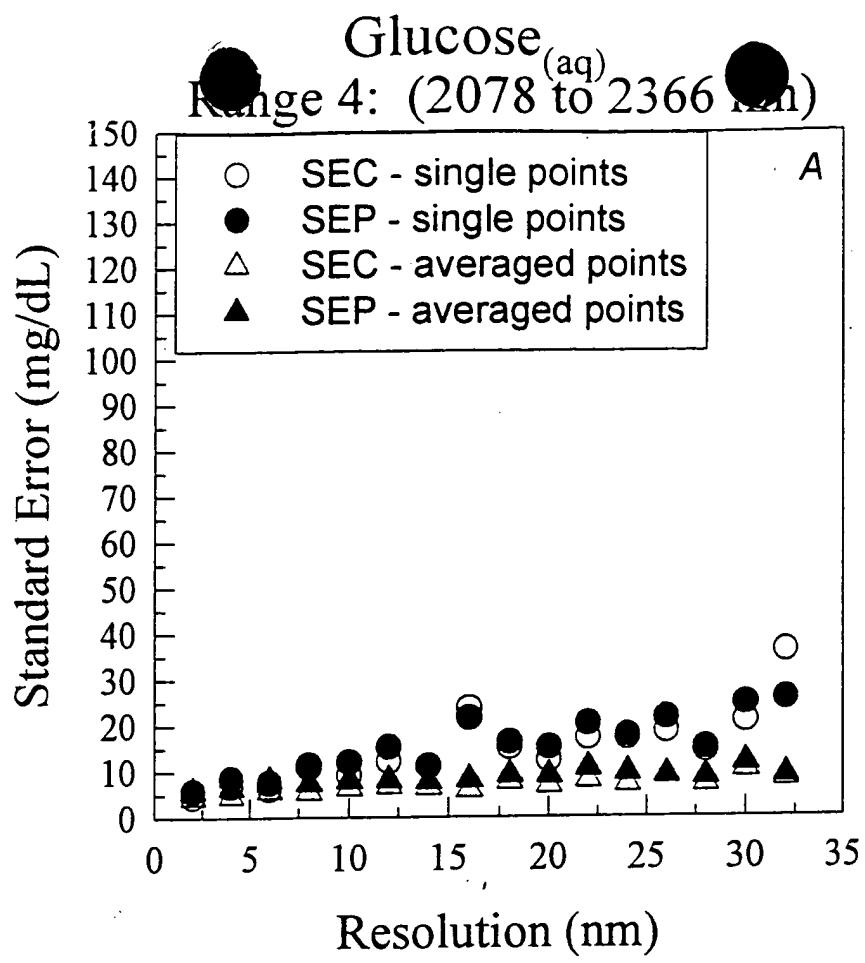


Fig. 18a

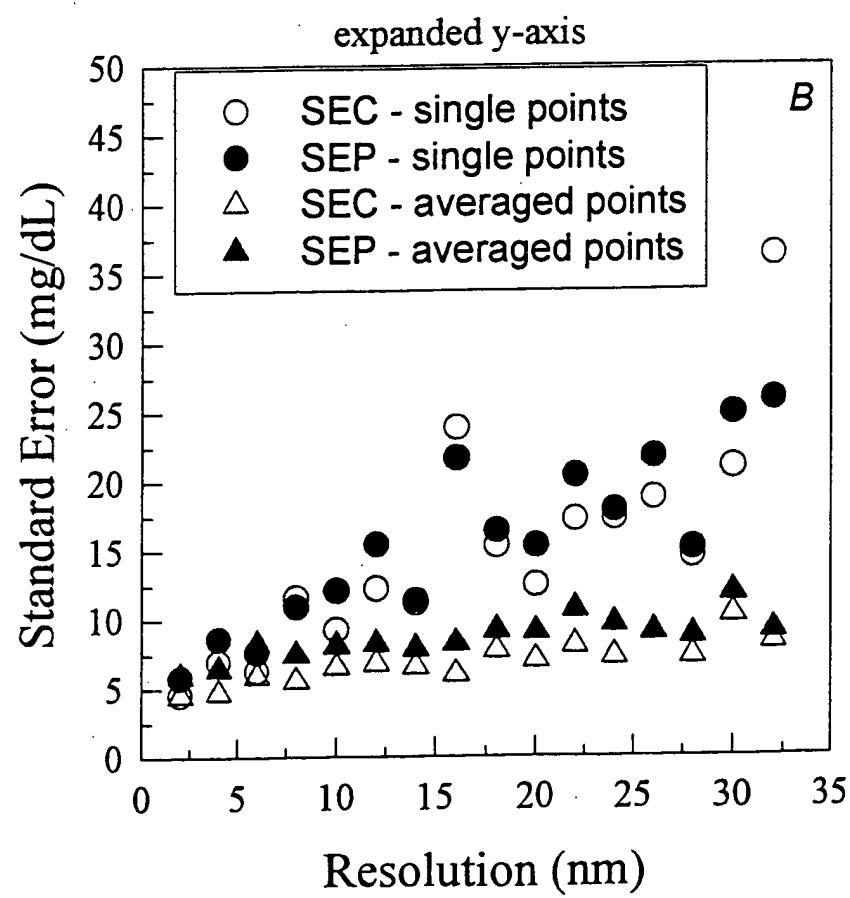


Fig. 18b

Glucose(aq)

Range 8: (1587 to 1754 nm)

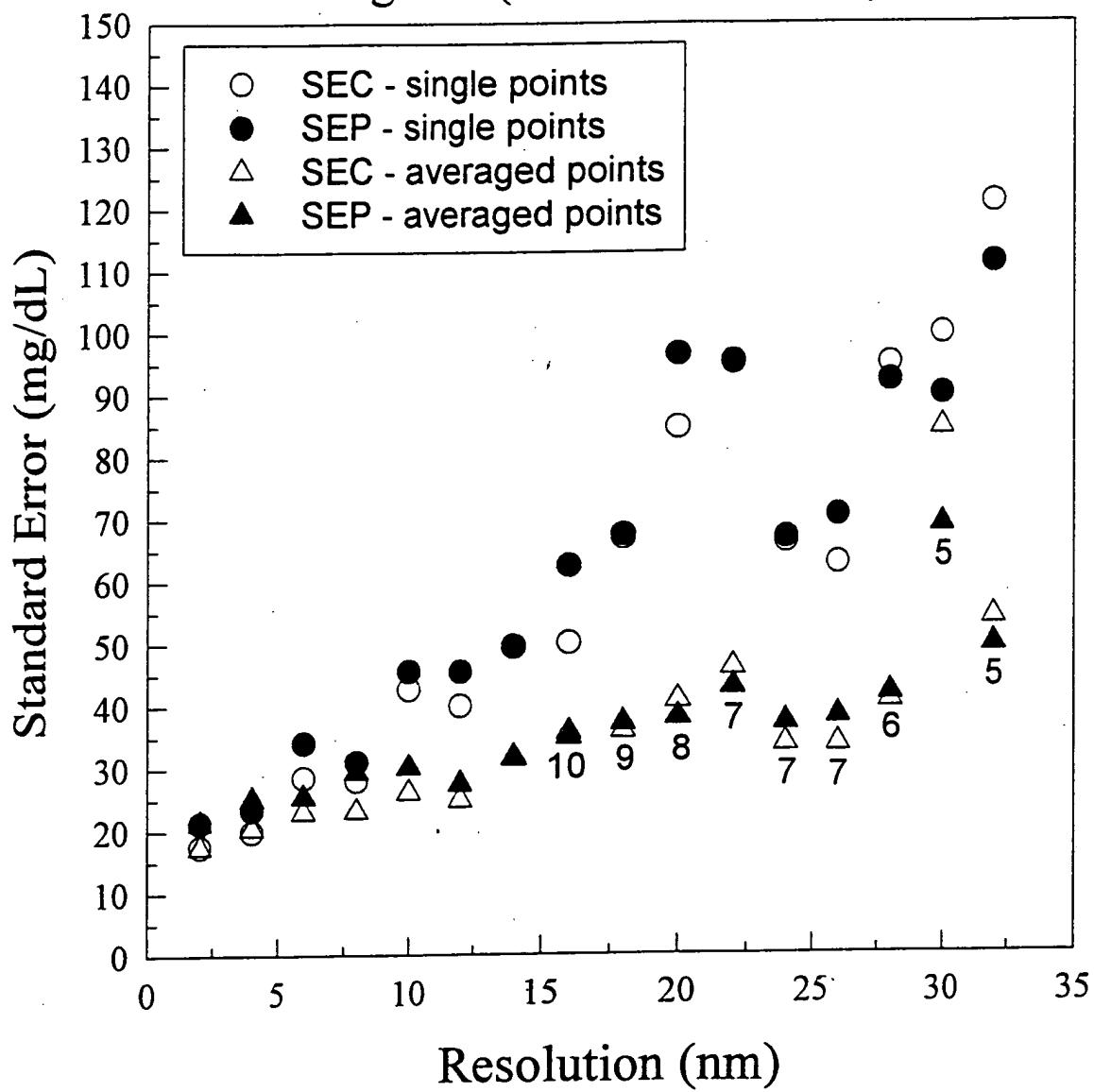


FIG. 19

Glucose_(aq)

Range 8: (1587 to 1754 nm); averaged points, 6PLS Factors

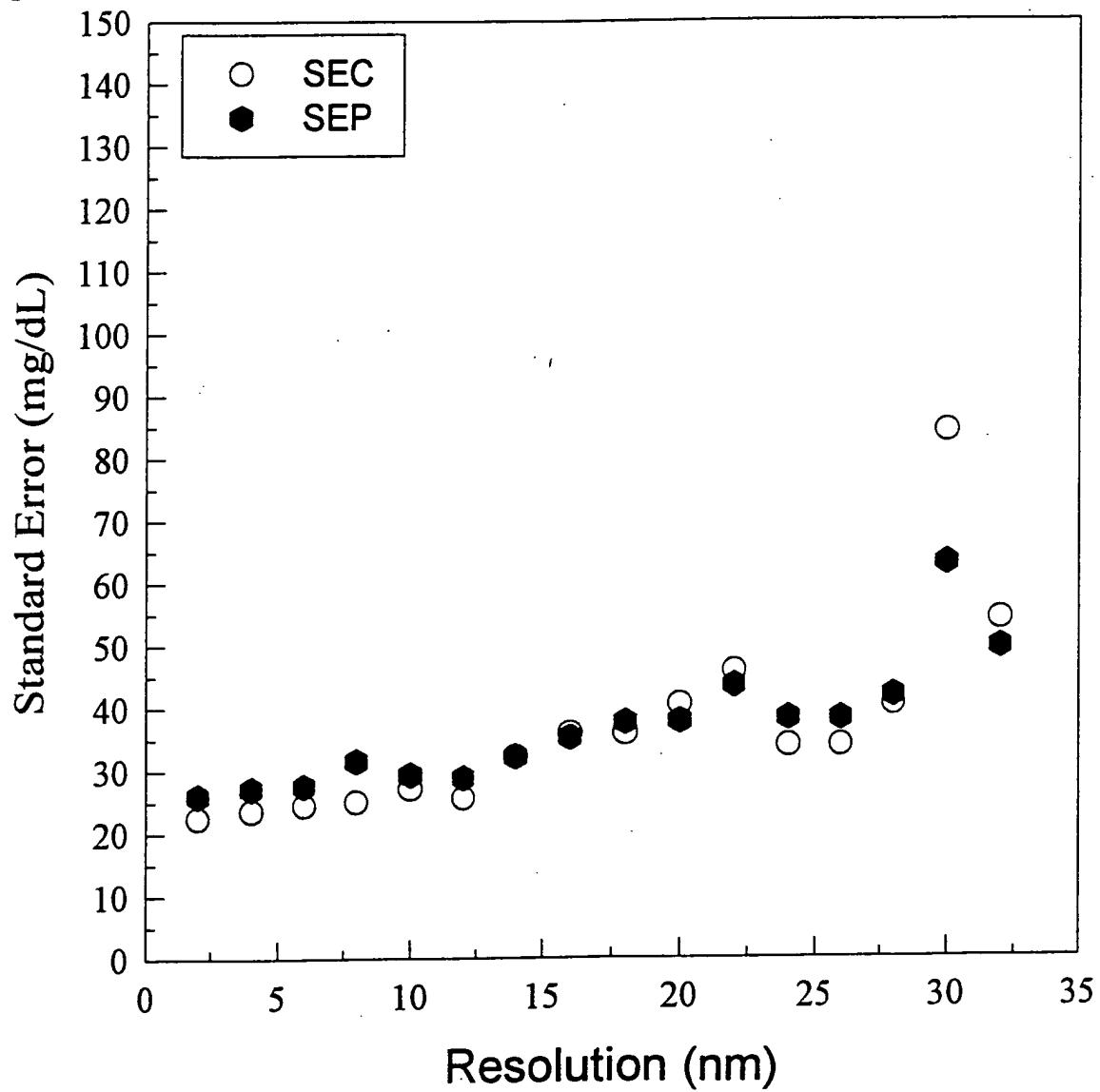


FIG. 20

Glucose in Serum
Range 1: (2078 to 2243 nm)

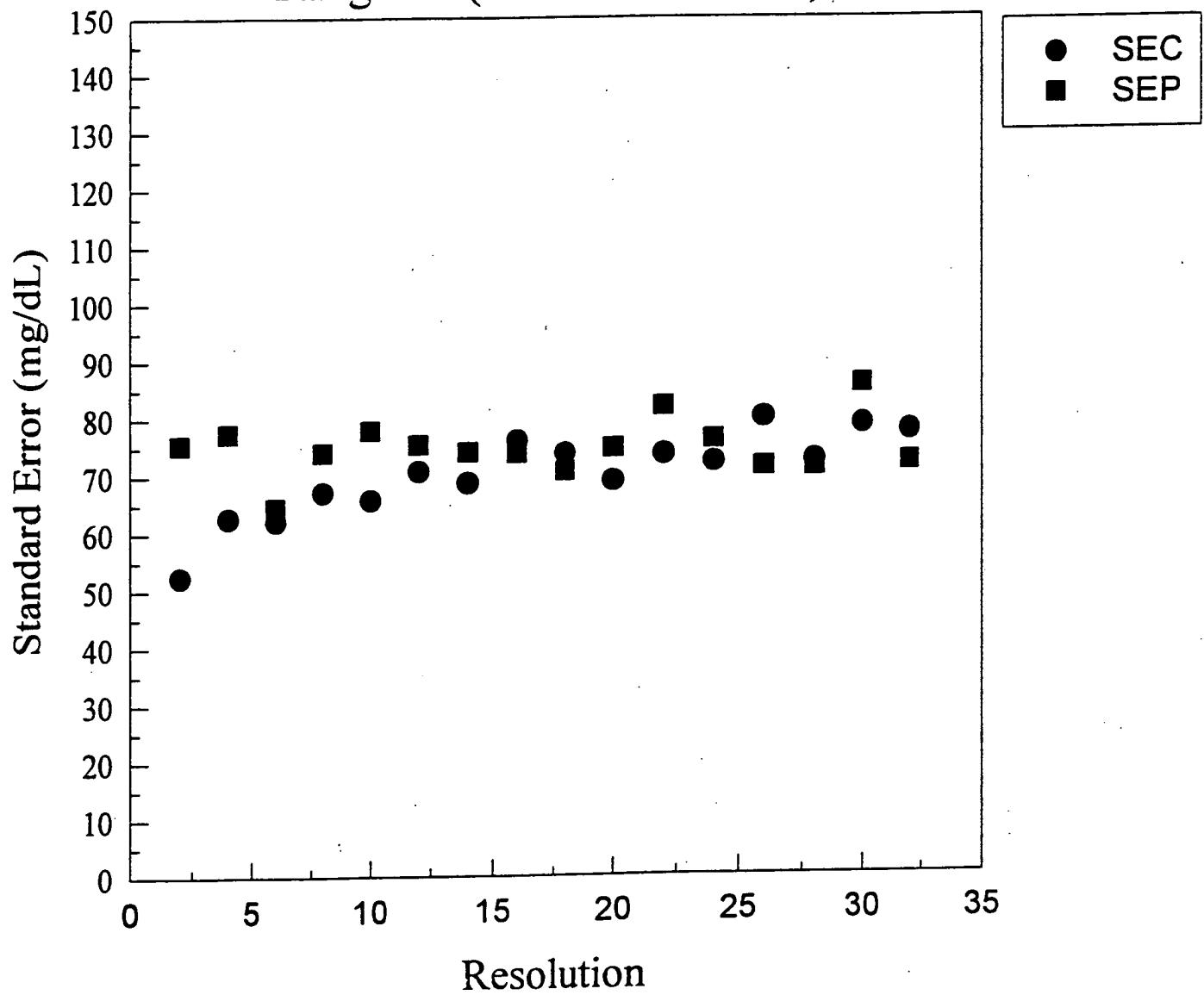


FIG. 21

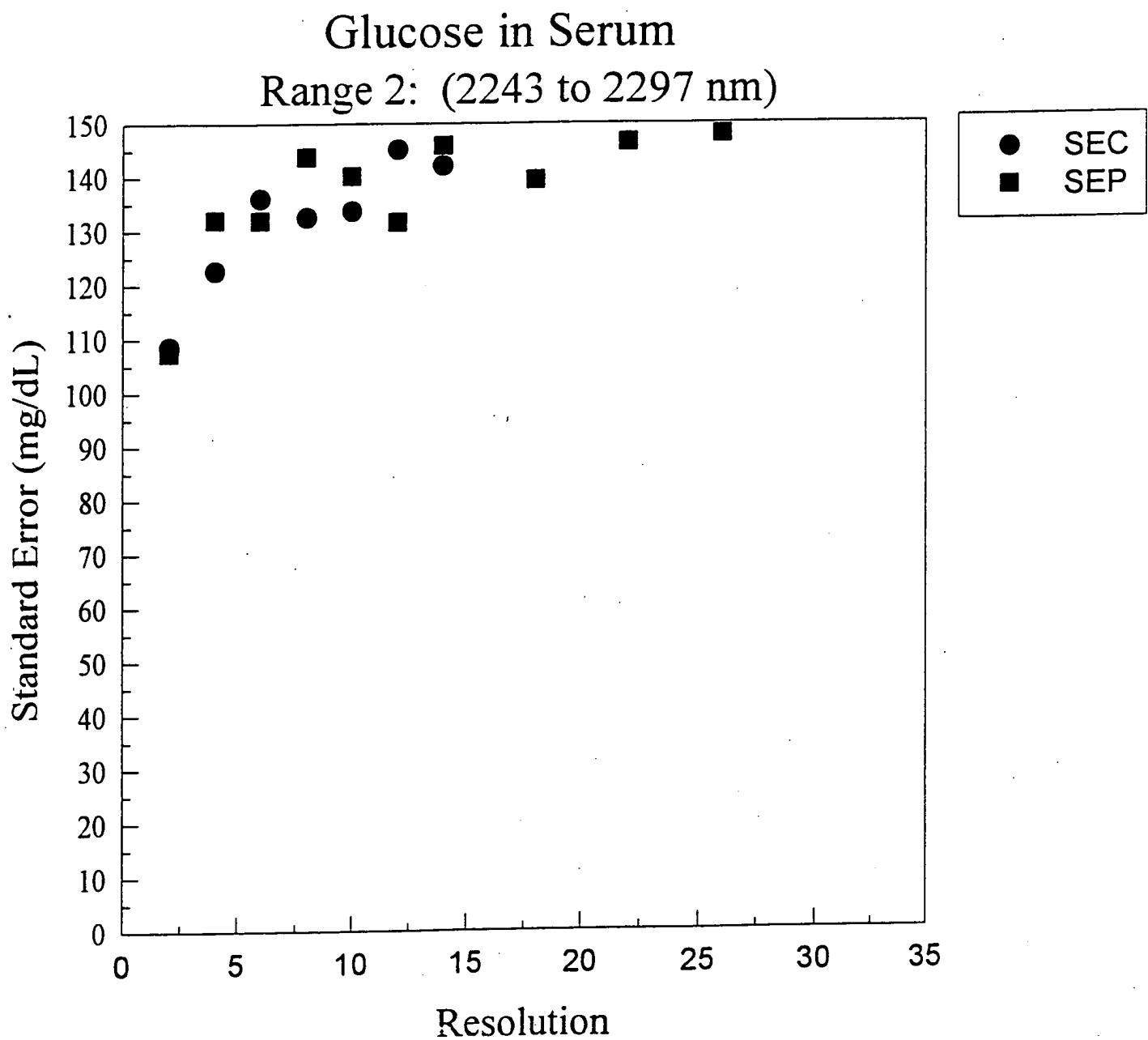


FIG. 22

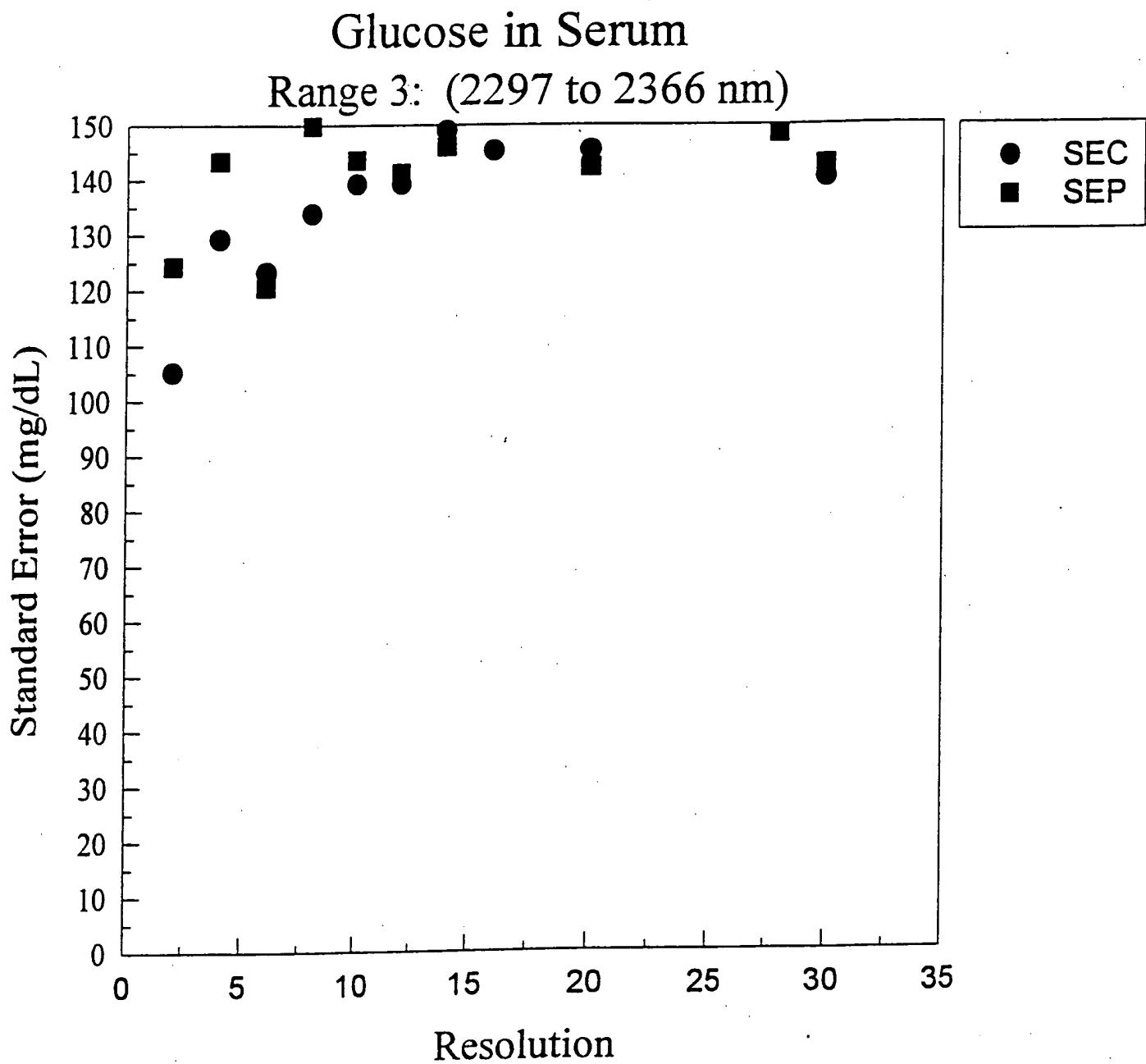


FIG. 23

Glucose in Serum
Range 4: (2078 to 2366 nm)

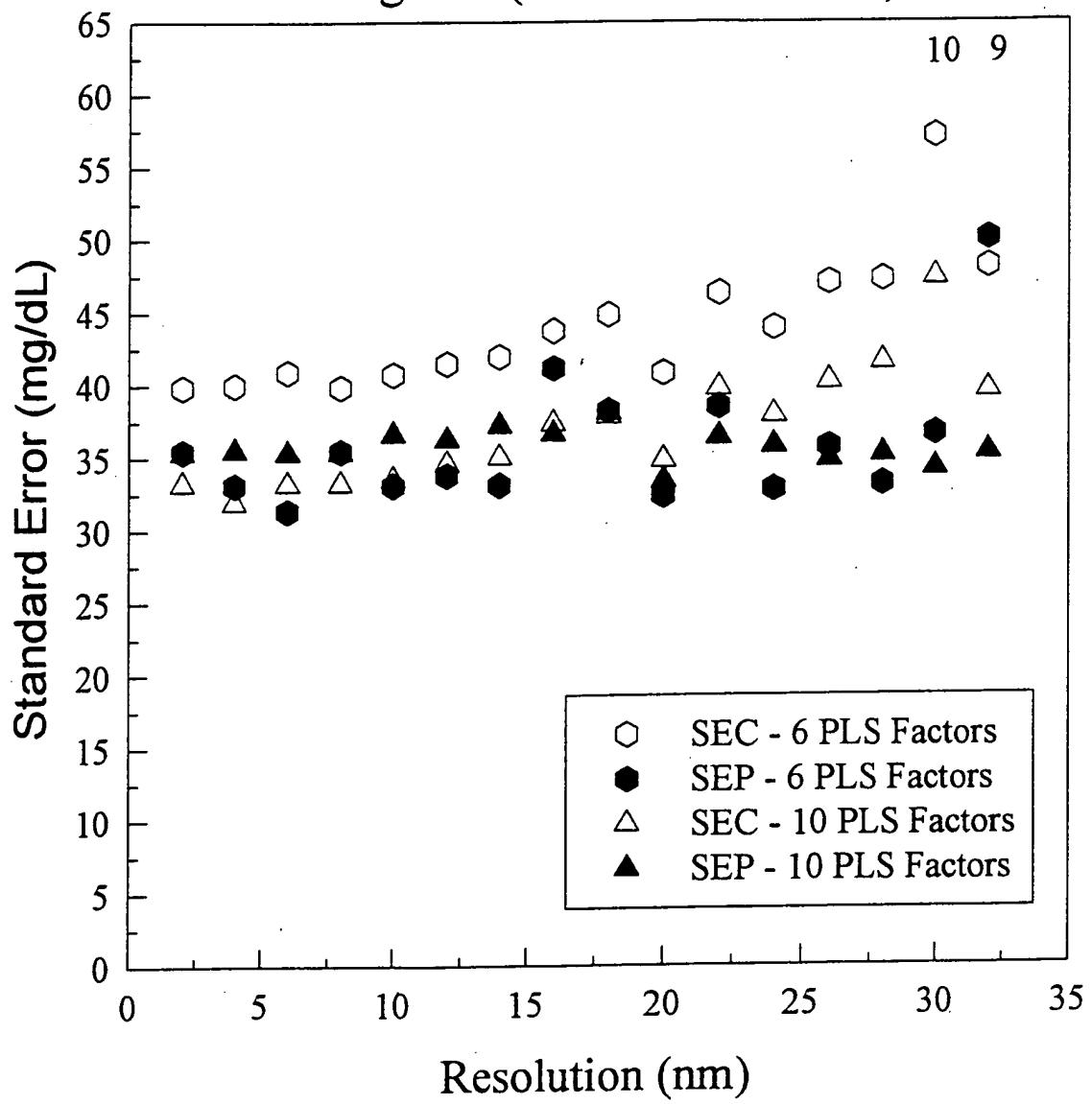


FIG. 24

Glucose in Serum

Range 5: (1587 to 1674 nm)

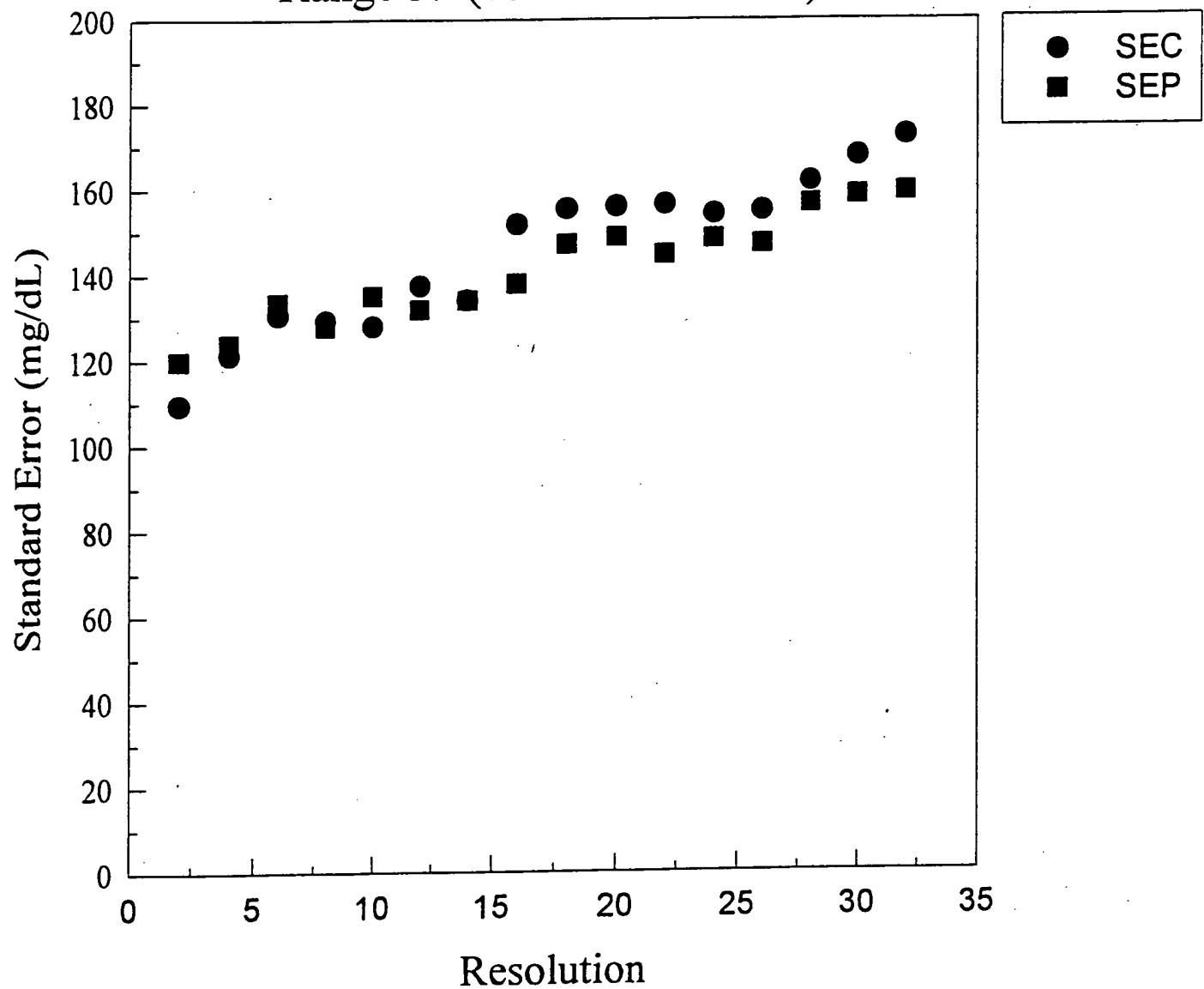


FIG. 25

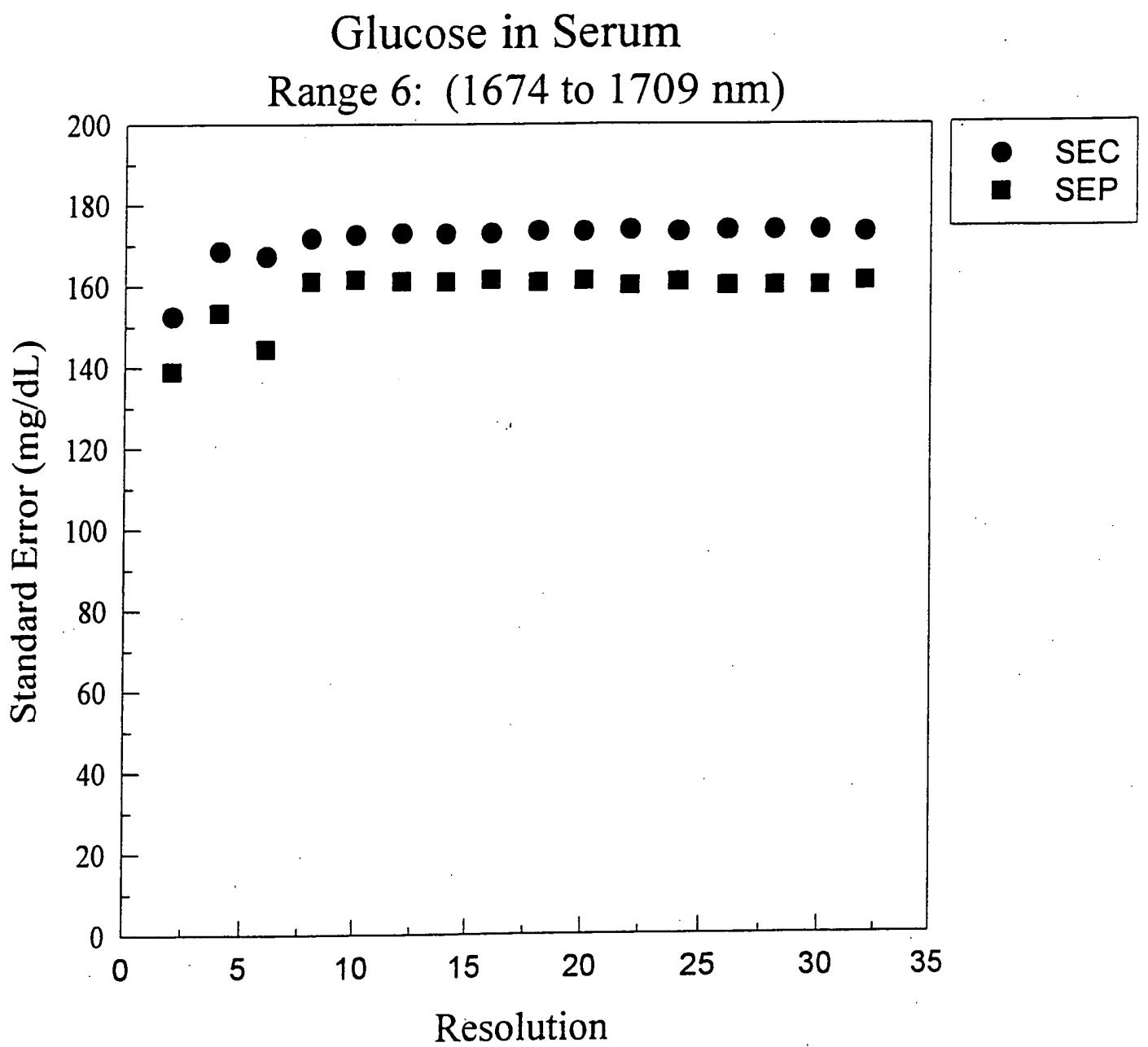


FIG. 26

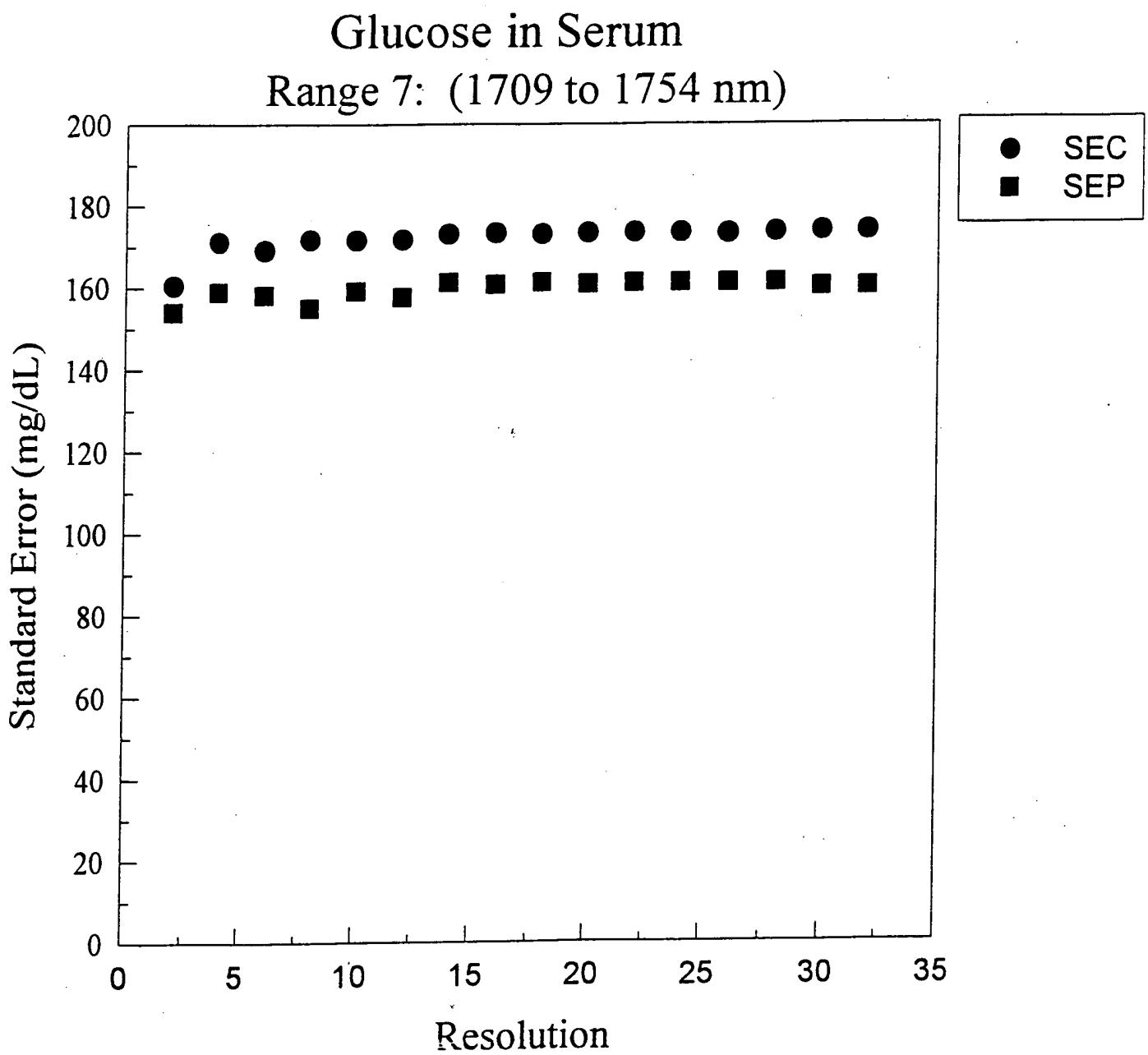


FIG. 27

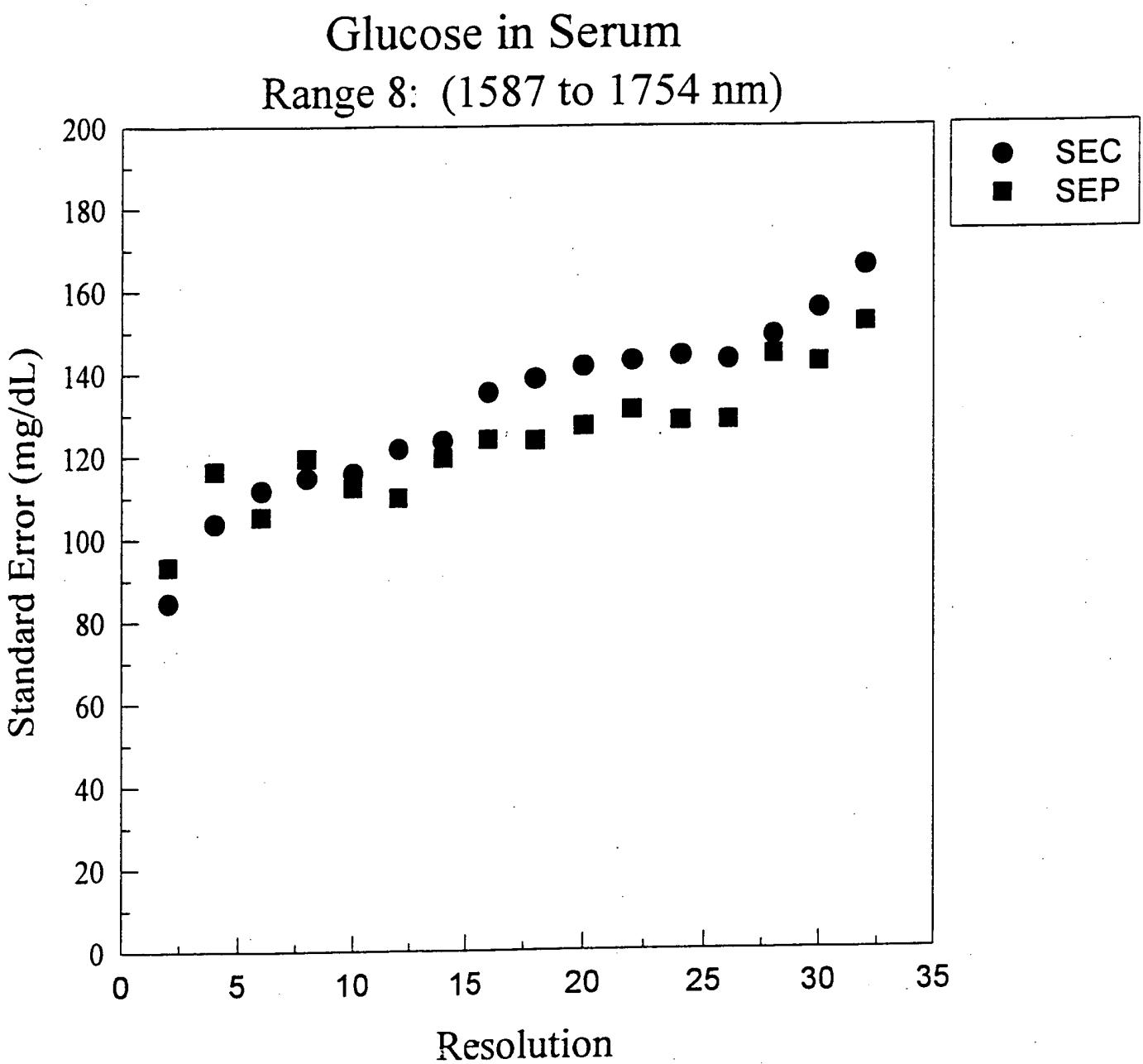


FIG. 28

Glucose in Serum

Range 9: (2000 to 2500 nm)

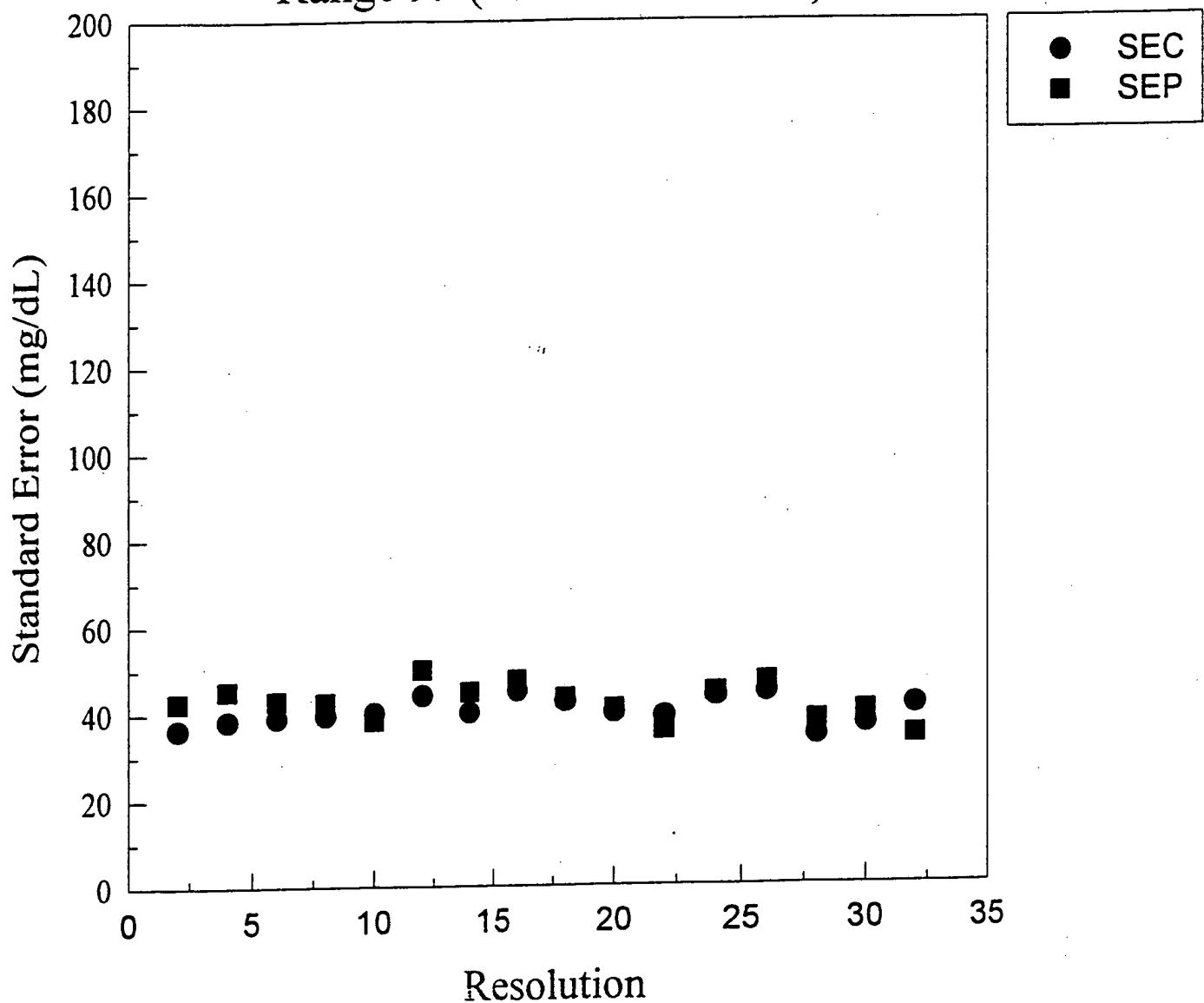


FIG. 29

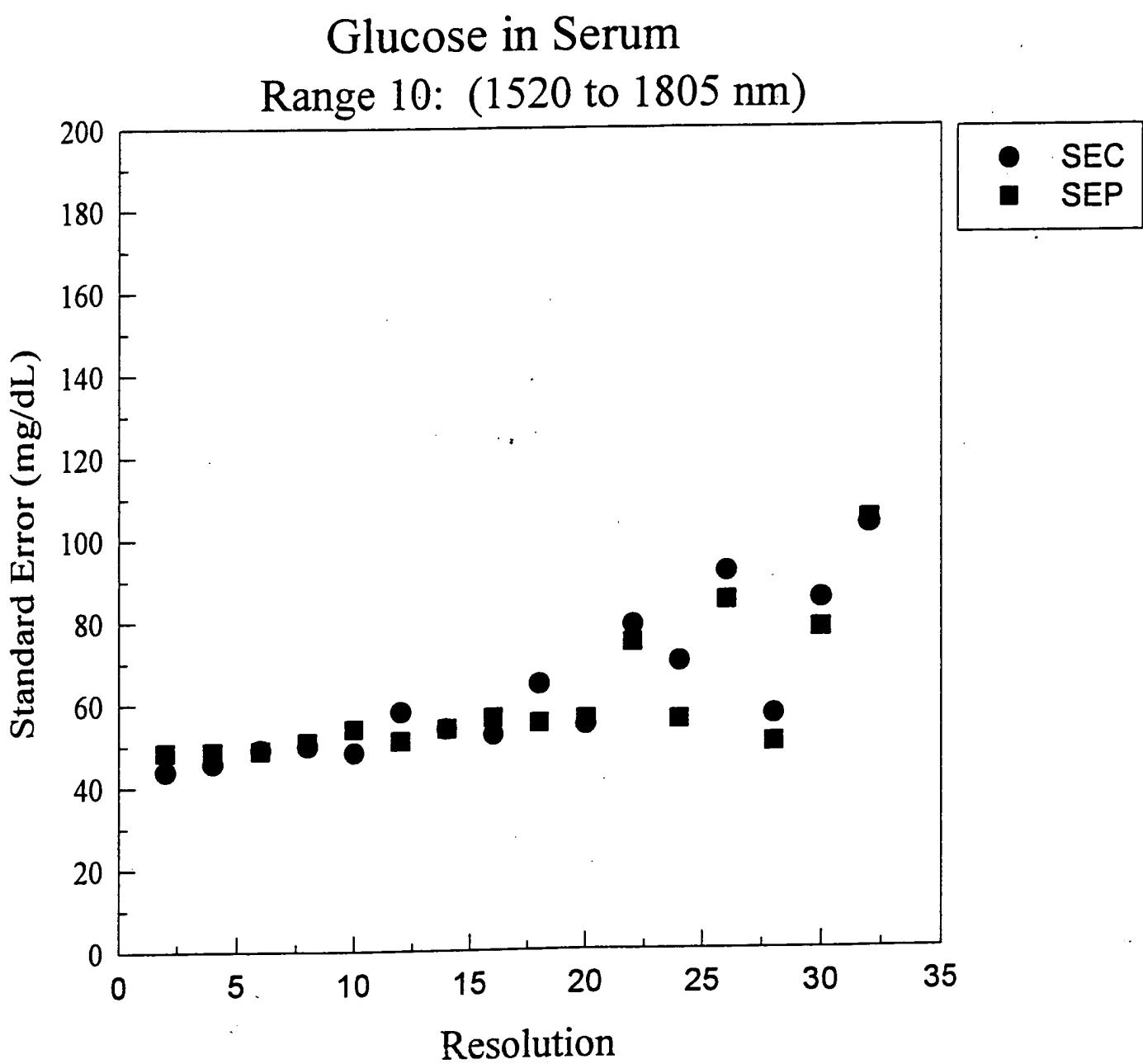


FIG. 30

Glucose in Serum
Range 8: (1587 to 1754 nm)

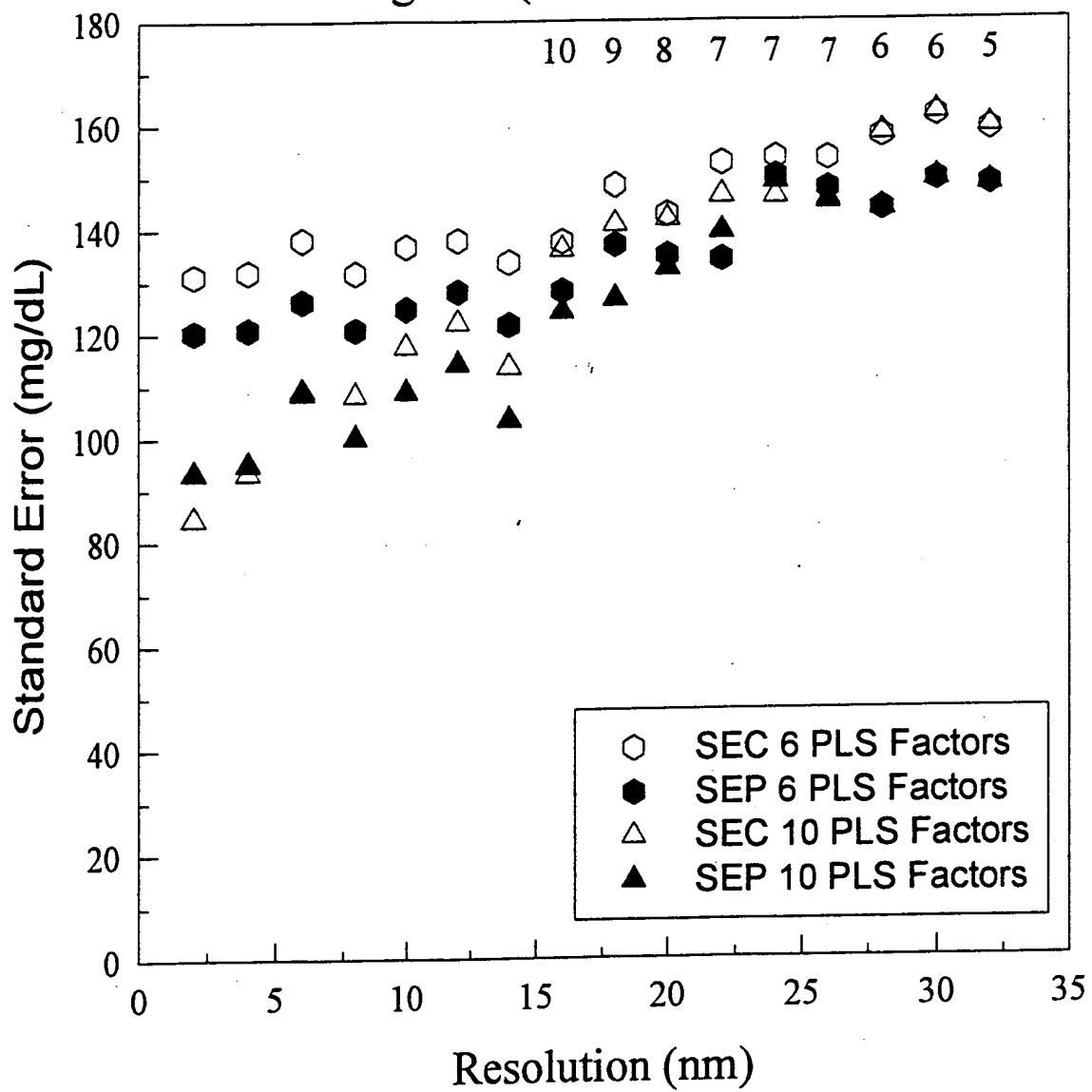


FIG. 31

Raw Absorbance
55 M Water; 8000 Albumin; 2000 Globulin; 200 Triacetin

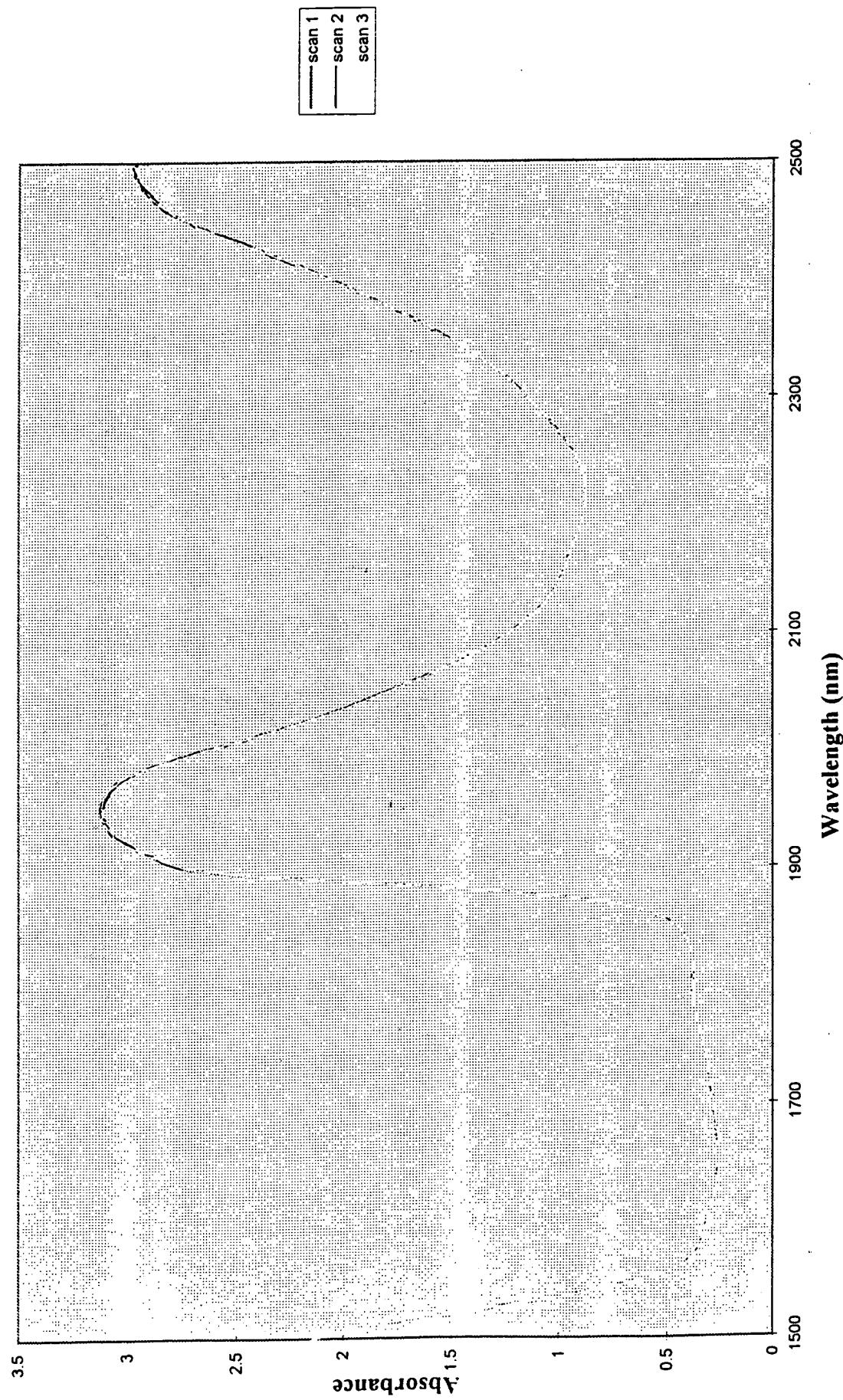


FIG. 32

Water Subtracted (Temperature and Pathlength Corrected)
8000 mg/dL albumin; 2000 mg/dL globulin; 200 mg/dL triacetin

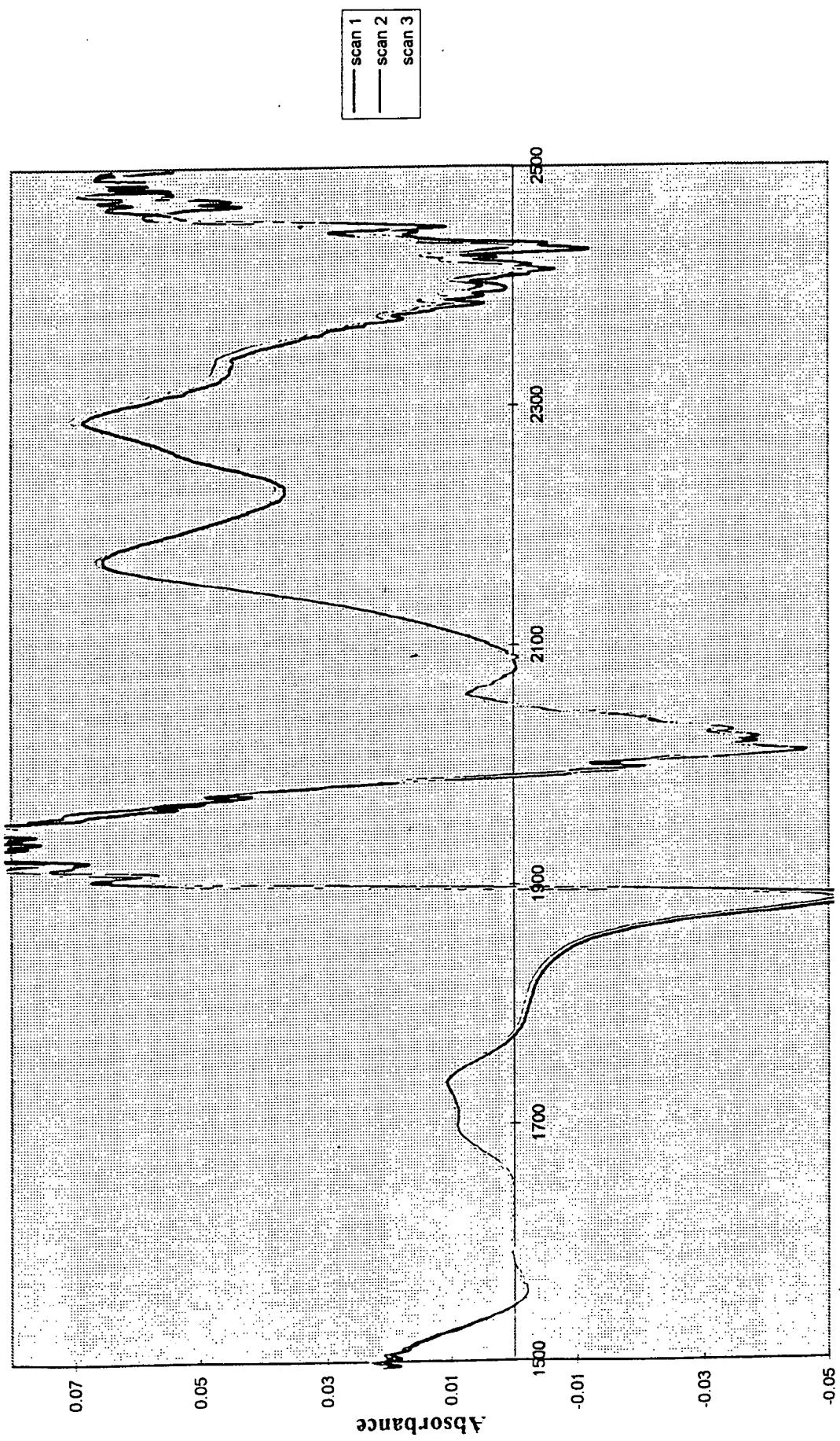


FIG. 33

Wavelength (nm)

Linear Study: Albumin Spectra
Temperature and Pathlength Corrected

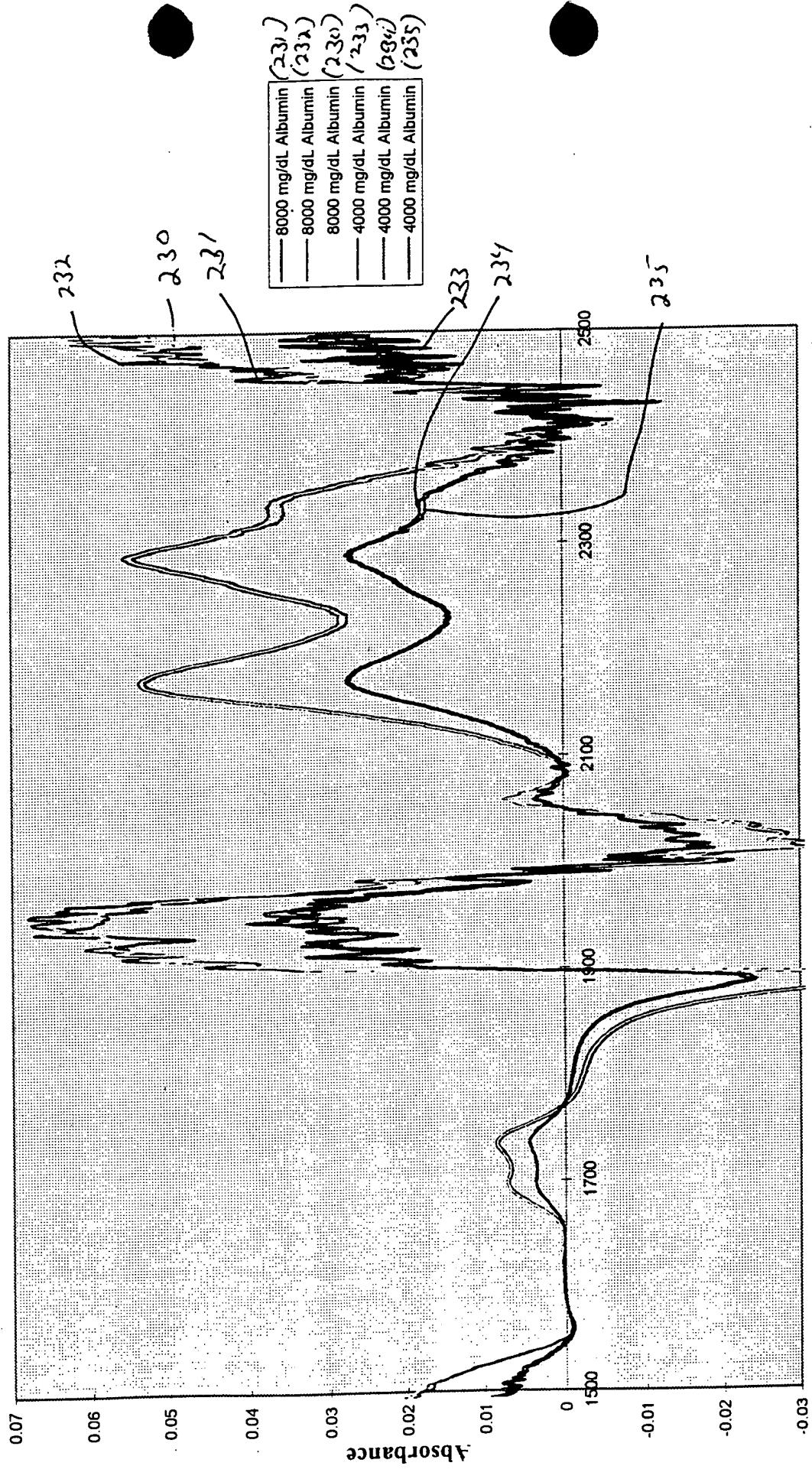


FIG. 34

Water & 8000 Albumin Subtracted
2000 Globulin; 200 Triacetin

2410
2420

0.02

0.015

0.01

0.005

0

-0.005

Absorbance

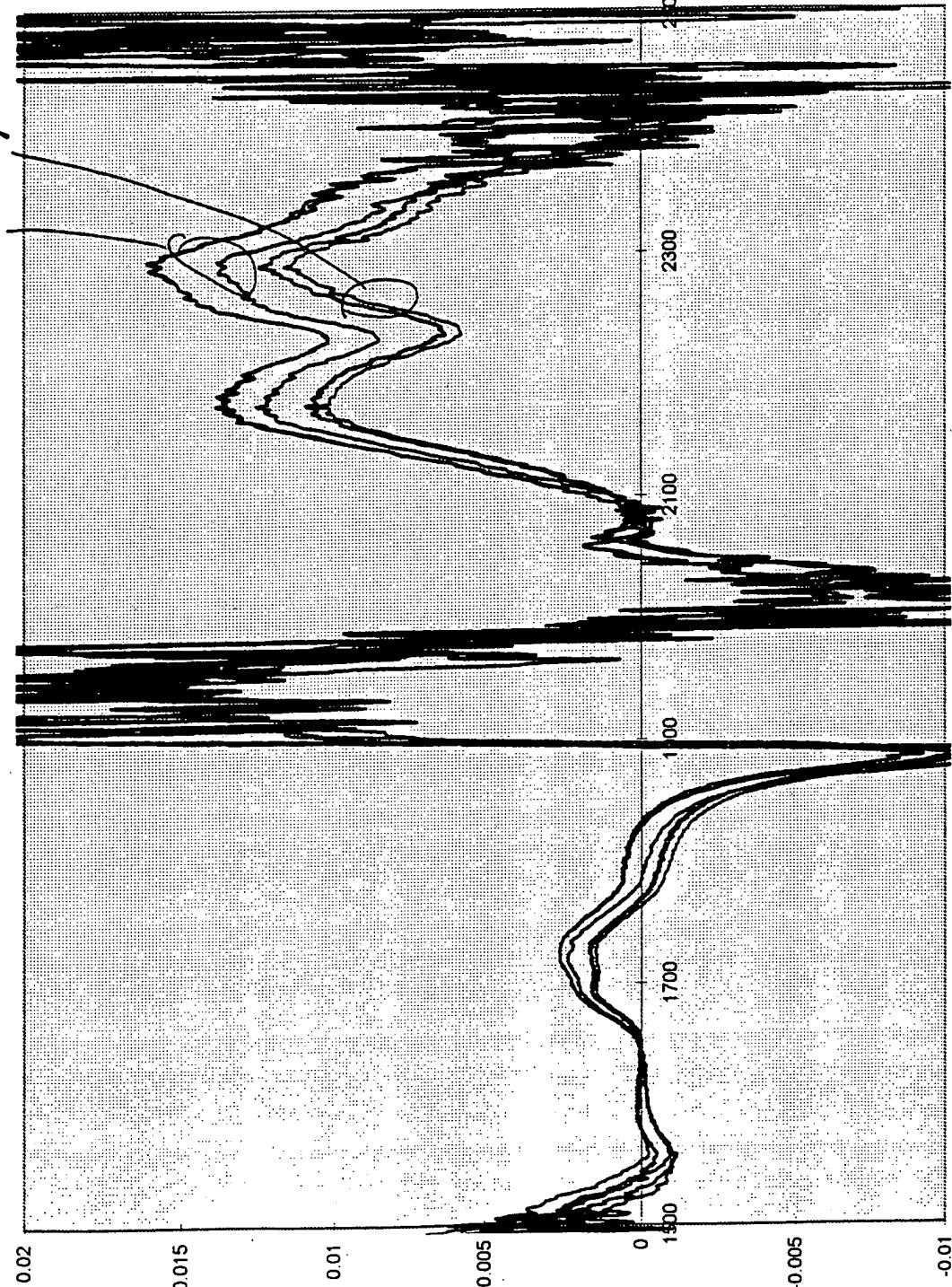


FIG. 35

Wavelength (nm)

346
347
2400
2300
2100
2000
1900
1800

Linearity Study: Globulin Absorbance
Temperature and Pathlength Corrected

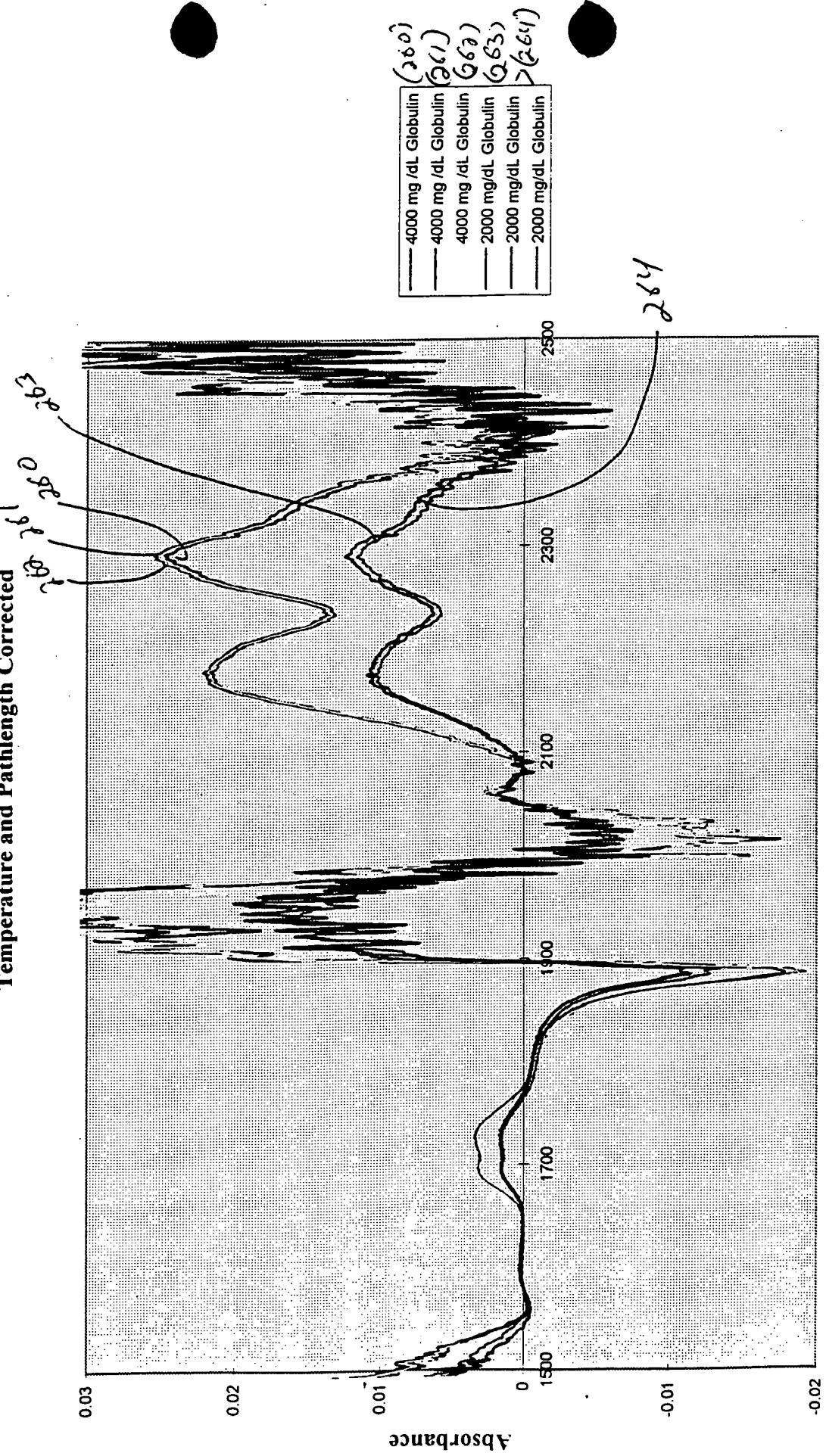


FIG. 36

Wavelength (nm)

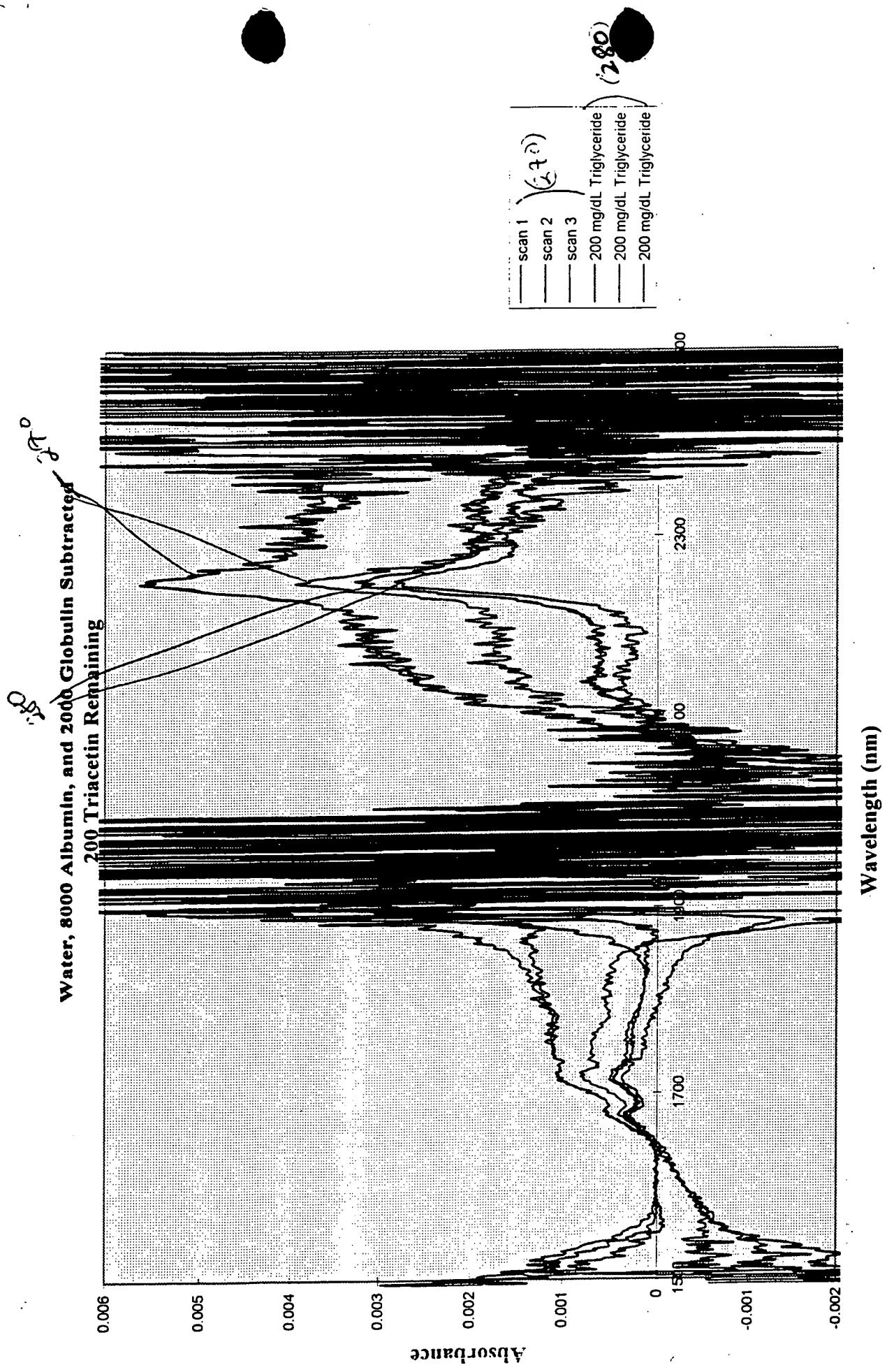


FIG. 37